



## Evaluation Report for Category L, Subcategory 1.1 Application

**Application Number:** 2023-0839  
**Application:** Application Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) Policy - Equivalency/Data Compensation Assessment  
**Product:** ZS Pinoxaden Technical  
**Registration Number:** 35161  
**Active ingredient (a.i.):** Pinoxaden  
**PMRA Document Number:** 3543547

### Purpose of Application

The purpose of this application was to register a new source of pinoxaden, ZS Pinoxaden Technical, based on a registered precedent product.

### Chemistry Assessment

Common Name: Pinoxaden  
IUPAC\* Chemical Name: 8-(2,6-diethyl-4-methylphenyl)-7-oxo-1,2,4,5-tetrahydro-7H-pyrazolo[1,2-*d*][1,4,5]oxadiazepin-9-yl 2,2-dimethylpropanoate  
CAS† Chemical Name: 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-*d*][1,4,5]oxadiazepin-9-yl 2,2-dimethylpropanoate

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

ZS Pinoxaden Technical has the following properties:

Property	Result
Colour and physical state	Ivory solid (crystal)
Nominal concentration	98.9 %
Odour	No characteristic odour
Specific gravity	1.163
Vapour pressure	2.2 x 10 <sup>-3</sup> mPa at 20 °C 4.1 x 10 <sup>-3</sup> mPa at 25 °C
pH	4.5, 1% solution

<b>Property</b>	<b>Result</b>
Solubility in water	0.197 g/L at pH = 6.1
n-Octanol/water partition coefficient	Log K <sub>ow</sub> = 3.1

The required chemistry data for ZS Pinoxaden Technical have been provided, reviewed, and found to be acceptable.

### **Health, Environmental and Value Assessments**

Health, environmental and value assessments were not required for this application.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of ZS Pinoxaden Technical.

## References

### PMRA

#### Document

Number	Reference
3441450	2019, Purity Profile of 5 batches Pinoxaden Technical, DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3441451	2020, Determination of the relevant impurity([CBI Removed]) content in Five Batches of Pinoxaden Technical, DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3441454	2019, Physical and chemical properties of one batch of PINOXADEN TC Melting Point, DACO: 2.14.4
3441455	2023, Zhongshan Pinoxaden Technical Physical and Chemical Property Waiver Requests, DACO: 2.14.16,2.14.5
3441457	2019, Physical and chemical properties of one batch of PINOXADEN TC Water solubility, DACO: 2.14.7
3441458	2019, Physical and chemical properties of one batch of PINOXADEN TC Solubility in organic solvents, DACO: 2.14.8
3441459	2019, Physical and chemical properties of one batch of PINOXADEN TC Vapor Pressure, DACO: 2.14.9
3441460	2019, Physical and chemical properties of one batch of PINOXADEN TC Dissociation constant, DACO: 2.14.10
3441461	2019, Physical and chemical properties of one batch of PINOXADEN TC Partition coefficient, DACO: 2.14.11
3441462	2019, Physical and chemical properties of one batch of PINOXADEN TC UV-VIS, IR,NMR and MS spectra, DACO: 2.14.12
3441463	2019, Physical and chemical properties of one batch of PINOXADEN TC Corrosivity - chemical incompatibility Stability to normal and elevated temperature, metals and metal ions, DACO: 2.14.13
3441464	2019, Physical and chemical properties of one batch of PINOXADEN TC Tests after accelerated storage, DACO: 2.14.14
3441465	2019, Physical and chemical properties of one batch of PINOXADEN TC Tests after accelerated storage, DACO: 2.14.14
3441466	2019, Physical and chemical properties of one batch of PINOXADEN TC pH of dilution, DACO: 2.14.15,830.7000
3459847	2019, Manufacturing Process of Pinoxaden Technical Grade Active Substance, DACO: 2.11 CBI
3460303	2023, Batch data of Pinoxaden TC, DACO: 2.13.3 CBI
3538740	2023, Manufacturing Process of Pinoxaden Technical Grade Active Substance , DACO: 2.11.3 CBI
3538741	2019, Physical and chemical properties of one batch of PINOXADEN TC Appearance, DACO: 2.14.1,2.14.2,2.14.3
3538742	2019, Physical and chemical properties of one batch of PINOXADEN TC Relative density for solids, DACO: 2.14.6

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