

## Evaluation Report for Category L, Subcategory 1.1 Application

**Application Number:** 2024-2124  
**Application:** Application Subject to the Protection of Proprietary Interests in Pesticide Data (PPIP) Policy - Equivalency/Data Compensation Assessment  
**Applicant:** Zhongshan Chemical Canada Corp  
**Product:** ZS Glyphosate Technical  
**Registration Number:** 35568  
**Active ingredient (a.i.):** Glyphosate  
**PMRA Document Number:** 3701139

### Purpose of Application

The purpose of this application was to register the technical grade active ingredient, ZS Glyphosate Technical, based on a precedent product.

### Chemistry Assessment

Common Name: glyphosate  
IUPAC\* Chemical Name: *N*-(phosphonomethyl)glycine  
CAS† Chemical Name: *N*-(phosphonomethyl)glycine

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

ZS Glyphosate Technical has the following properties:

Property	Result
Colour and physical state	White powder
Nominal concentration	96.86 %
Odour	Characteristic odour
Density	1.6 – 1.7 g/mL at 20°C
Vapour pressure	8.54 x 10 <sup>-3</sup> mPa at 25°C
pH	1.5 – 2.5
Solubility in water	12.72 g/L (pH 2.04)
n-Octanol/water partition coefficient	log K <sub>ow</sub> = -1.833 (pH 2.30)

The required chemistry data for ZS Glyphosate 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 for the registration of ZS Glyphosate Technical.

## References

### PMRA

#### Document

Number	Reference
3593665	2022, Manufacturing Process of Glyphosate Technical Grade Active Substance, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI
3593666	2017, Qualitative and Quantitative Profile of the test substance Glyphosate Technical (Five Batch Analysis), DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3593668	2018, Physical State, Appearance, Color, and Odor of Glyphosate Technical, DACO: 2.14.1,2.14.2,2.14.3
3593669	2018, Melting point and range of Glyphosate Technical, DACO: 2.14.4
3593670	2024, ZS Glyphosate Technical Physical and Chemical Property Waiver Requests, DACO: 2.14.16,2.14.5
3593671	2018, Determination of the Relative Density of Glyphosate Technical, DACO: 2.14.6
3593672	2018, Solubility in water and organic solvents (N-hexane and acetone) of Glyphosate Technical, DACO: 2.14.7,2.14.8
3593673	2018, Vapor pressure of Glyphosate Technical, DACO: 2.14.9
3593674	2018, Dissociation constant in water of Glyphosate Technical, DACO: 2.14.10
3593675	2018, Partition coefficient (n-octanol / water) Glyphosate Technical, DACO: 2.14.11
3593676	2019, UV-VIS Absorption Spectra of Glyphosate Technical, DACO: 2.14.12
3593677	2018, Stability of Glyphosate Technical to Normal and Elevated Temperatures, Metals and Metal Ions, DACO: 2.14.13
3593678	2018, Accelerated Storage Stability and Corrosion Characteristics of Glyphosate Technical, DACO: 2.14.14
3593679	2018, Determination of the pH value of an aqueous solution of Glyphosate Technical, DACO: 2.14.15,830.7000
3688769	2025, Manufacturing Process and Flow Chart of Glyphosate Technical, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI
3688770	2025, Batch Data, DACO: 2.13.3 CBI

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