

germanium sulphide

Other names: Germanium monosulfide
Inchi: InChI=1S/GeH2S/c1-2/h1H2
InchiKey: UQMCSSLUTFUDSN-UHFFFAOYSA-N
Formula: GeS
SMILES: S=[GeH2]
Mol. weight [g/mol]: 104.70
CAS: 12025-32-0

Physical Properties

Property code	Value	Unit	Source
ie	10.35 ± 0.08	eV	NIST Webbook
ie	10.39	eV	NIST Webbook
ie	10.50	eV	NIST Webbook
ie	9.98 ± 0.02	eV	NIST Webbook
ie	10.36	eV	NIST Webbook
ie	10.18 ± 0.03	eV	NIST Webbook
ie	10.90 ± 0.50	eV	NIST Webbook
ie	10.25	eV	NIST Webbook
log10ws	2.21		Crippen Method
logp	-0.268		Crippen Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C12025320&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

ie: Ionization energy

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

Latest version available from:

<https://www.cheméo.com/cid/70-451-3/germanium-sulphide.pdf>

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