

Arsenic trioxide

Inchi: InChI=1S/As2O3/c3-1-5-2-4
InchiKey: IKWTVSLWAPBBKU-UHFFFAOYSA-N
Formula: As2O3
SMILES: O=[As]O[As]=O
Mol. weight [g/mol]: 197.84
CAS: 1327-53-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-4.09		Crippen Method
logp	-1.068		Crippen Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	9.48157e+00
Coeff. B	-2.30587e+03
Coeff. C	-2.66160e+02
Temperature range (K), min.	406.85
Temperature range (K), max.	740.30

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=B6000484&Units=SI>
The Yaws Handbook of Vapor Pressure: <https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
pvap: Vapor pressure

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