

1,14-Dichloro-3,6,12-trithia-9-oxatetradecane

Inchi:	InChI=1S/C10H20Cl2OS3/c11-1-5-14-7-3-13-4-8-16-10-9-15-6-2-12/h1-10H2
InchiKey:	CSWFFQYKMQIBDP-UHFFFAOYSA-N
Formula:	C10H20Cl2OS3
SMILES:	C1CCSCCOCCSCCSCCI
Mol. weight [g/mol]:	323.37

Physical Properties

Property code	Value	Unit	Source
gf	3.82	kJ/mol	Joback Method
hf	-287.82	kJ/mol	Joback Method
hfus	43.63	kJ/mol	Joback Method
hvap	69.48	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	3.680		Crippen Method
mcvol	231.160	ml/mol	McGowan Method
pc	2032.72	kPa	Joback Method
rinpol	2419.00		NIST Webbook
rinpol	2514.50		NIST Webbook
rinpol	2419.00		NIST Webbook
rinpol	2419.00		NIST Webbook
rinpol	2514.50		NIST Webbook
tb	731.82	K	Joback Method
tc	952.39	K	Joback Method
tf	387.73	K	Joback Method
vc	0.874	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	572.24	J/mol×K	731.82	Joback Method
cpg	585.96	J/mol×K	768.58	Joback Method
cpg	598.71	J/mol×K	805.34	Joback Method
cpg	610.50	J/mol×K	842.10	Joback Method
cpg	621.32	J/mol×K	878.86	Joback Method

cpg	631.16	J/mol×K	915.63	Joback Method
cpg	640.03	J/mol×K	952.39	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R41392&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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