

Ethanol, 2-(octylthio)-

Other names:	MGK Repellent 874 MGK 874 R-874 2-(Octylthio)ethanol 2-Hydroxyethyl n-octyl sulfide 2-Hydroxyethyl octyl sulfide «beta»-Hydroxyethyl n-octyl sulfide r-874 Phillips MGK repellent R-874 2-(Oktylthio)ethanol NSC 163967
Inchi:	InChI=1S/C10H22OS/c1-2-3-4-5-6-7-9-12-10-8-11/h11H,2-10H2,1H3
InchiKey:	KXPXKNBDCUOENF-UHFFFAOYSA-N
Formula:	C10H22OS
SMILES:	CCCCCCCCSCCO
Mol. weight [g/mol]:	190.35
CAS:	3547-33-9

Physical Properties

Property code	Value	Unit	Source
gf	-70.38	kJ/mol	Joback Method
hf	-360.09	kJ/mol	Joback Method
hfus	29.87	kJ/mol	Joback Method
hvap	61.35	kJ/mol	Joback Method
log10ws	-3.16		Crippen Method
logp	3.072		Crippen Method
mvol	173.980	ml/mol	McGowan Method
pc	2336.03	kPa	Joback Method
rinpol	1562.00		NIST Webbook
rinpol	1562.00		NIST Webbook
tb	589.16	K	Joback Method
tc	763.42	K	Joback Method
tf	297.68	K	Joback Method
vc	0.668	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	438.61	J/mol×K	589.16	Joback Method
cpg	452.10	J/mol×K	618.20	Joback Method
cpg	465.00	J/mol×K	647.25	Joback Method
cpg	477.35	J/mol×K	676.29	Joback Method
cpg	489.13	J/mol×K	705.34	Joback Method
cpg	500.38	J/mol×K	734.38	Joback Method
cpg	511.11	J/mol×K	763.42	Joback Method

Sources

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=C3547339&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	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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