

3-mercapto-2-ethylpropyl- acetate

Inchi:	InChI=1S/C7H14O2S/c1-3-7(5-10)4-9-6(2)8/h7,10H,3-5H2,1-2H3
InchiKey:	UCQVLYHNBHSYNN-UHFFFAOYSA-N
Formula:	C7H14O2S
SMILES:	CCC(CS)COC(C)=O
Mol. weight [g/mol]:	162.25

Physical Properties

Property code	Value	Unit	Source
gf	-198.91	kJ/mol	Joback Method
hf	-399.41	kJ/mol	Joback Method
hfus	17.19	kJ/mol	Joback Method
hvap	46.68	kJ/mol	Joback Method
log10ws	-1.45		Crippen Method
logp	1.506		Crippen Method
mcvol	133.280	ml/mol	McGowan Method
pc	3184.73	kPa	Joback Method
rinpol	1154.00		NIST Webbook
ripol	1665.00		NIST Webbook
tb	498.27	K	Joback Method
tc	699.54	K	Joback Method
tf	262.27	K	Joback Method
vc	0.499	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.82	J/mol×K	498.27	Joback Method
cpg	297.93	J/mol×K	531.81	Joback Method
cpg	309.52	J/mol×K	565.36	Joback Method
cpg	320.59	J/mol×K	598.90	Joback Method
cpg	331.14	J/mol×K	632.45	Joback Method
cpg	341.18	J/mol×K	665.99	Joback Method
cpg	350.72	J/mol×K	699.54	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=R291762&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
ri_{npol}:	Non-polar retention indices
ri_{pol}:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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