

(E)-Myroxide

Other names:	trans-myroxide
Inchi:	InChI=1S/C10H16O/c1-5-8(2)6-7-9-10(3,4)11-9/h5-6,9H,1,7H2,2-4H3/b8-6+
InchiKey:	LIMXJGIGROLRED-SOFGYWHQSA-N
Formula:	C10H16O
SMILES:	<chem>C=CC(C)=CCC1OC1(C)C</chem>
Mol. weight [g/mol]:	152.23
CAS:	94607-47-3

Physical Properties

Property code	Value	Unit	Source
gf	154.26	kJ/mol	Joback Method
hf	-81.17	kJ/mol	Joback Method
hfus	20.15	kJ/mol	Joback Method
hvap	40.19	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.686		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2640.67	kPa	Joback Method
ripol	1156.00		NIST Webbook
ripol	1140.00		NIST Webbook
ripol	1139.00		NIST Webbook
ripol	1142.00		NIST Webbook
ripol	1140.00		NIST Webbook
ripol	1156.00		NIST Webbook
ripol	1138.00		NIST Webbook
ripol	1136.00		NIST Webbook
ripol	1465.00		NIST Webbook
ripol	1474.00		NIST Webbook
ripol	1484.00		NIST Webbook
ripol	1465.00		NIST Webbook
tb	458.18	K	Joback Method
tc	657.47	K	Joback Method
tf	245.83	K	Joback Method
vc	0.532	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.19	J/molxK	458.18	Joback Method
cpg	318.21	J/molxK	491.40	Joback Method
cpg	333.07	J/molxK	524.61	Joback Method
cpg	346.90	J/molxK	557.83	Joback Method
cpg	359.80	J/molxK	591.04	Joback Method
cpg	371.90	J/molxK	624.26	Joback Method
cpg	383.32	J/molxK	657.47	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C94607473&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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