

3,9-Epoxy-p-menthane

Inchi:	InChI=1S/C10H18O/c1-7-3-4-9-8(2)6-11-10(9)5-7/h7-10H,3-6H2,1-2H3
InchiKey:	SVACGNWFRPNIFK-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	CC1CCC2C(C)COC2C1
Mol. weight [g/mol]:	154.25

Physical Properties

Property code	Value	Unit	Source
gf	16.98	kJ/mol	Joback Method
hf	-295.29	kJ/mol	Joback Method
hfus	21.75	kJ/mol	Joback Method
hvap	42.09	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	2.458		Crippen Method
mcvol	135.910	ml/mol	McGowan Method
pc	2718.33	kPa	Joback Method
ripol	1506.00		NIST Webbook
ripol	1506.00		NIST Webbook
tb	472.10	K	Joback Method
tc	683.92	K	Joback Method
tf	245.87	K	Joback Method
vc	0.504	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.58	J/molxK	472.10	Joback Method
cpg	414.84	J/molxK	648.62	Joback Method
cpg	398.15	J/molxK	613.31	Joback Method
cpg	380.42	J/molxK	578.01	Joback Method
cpg	361.61	J/molxK	542.71	Joback Method
cpg	341.67	J/molxK	507.40	Joback Method
cpg	430.53	J/molxK	683.92	Joback Method
dvisc	0.0005595	Paxs	472.10	Joback Method

dvisc	0.0006238	Paxs	434.40	Joback Method
dvisc	0.0007101	Paxs	396.69	Joback Method
dvisc	0.0008305	Paxs	358.99	Joback Method
dvisc	0.0010079	Paxs	321.28	Joback Method
dvisc	0.0012877	Paxs	283.57	Joback Method
dvisc	0.0017735	Paxs	245.87	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=R408683&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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