

cis-1,2-Epoxy-terpin-4-ol

Other names:	cis-1,2-epoxy-terpin-4-ol (= p-menth-1,2-epoxy-4-ol)
Inchi:	InChI=1S/C10H18O2/c1-7(2)10(11)5-4-9(3)8(6-10)12-9/h7-8,11H,4-6H2,1-3H3
InchiKey:	JLNJUKBAHGGNLB-UHFFFAOYSA-N
Formula:	C10H18O2
SMILES:	CC(C)C1(O)CCC2(C)OC2C1
Mol. weight [g/mol]:	170.25

Physical Properties

Property code	Value	Unit	Source
gf	-101.35	kJ/mol	Joback Method
hf	-389.66	kJ/mol	Joback Method
hfus	12.84	kJ/mol	Joback Method
hvap	56.04	kJ/mol	Joback Method
log10ws	-2.24		Crippen Method
logp	1.715		Crippen Method
mcvol	141.780	ml/mol	McGowan Method
pc	3284.05	kPa	Joback Method
ripol	1729.00		NIST Webbook
tb	560.45	K	Joback Method
tc	764.48	K	Joback Method
tf	350.77	K	Joback Method
vc	0.530	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	384.67	J/mol×K	560.45	Joback Method
cpg	399.66	J/mol×K	594.46	Joback Method
cpg	413.64	J/mol×K	628.46	Joback Method
cpg	426.81	J/mol×K	662.47	Joback Method
cpg	439.37	J/mol×K	696.47	Joback Method
cpg	451.52	J/mol×K	730.48	Joback Method
cpg	463.45	J/mol×K	764.48	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=R335812&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
h vap:	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
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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