(S)-(-)-(4-Isopropenyl-1-cyclohexenyl)methanol

Other names: L-perillyl alcohol
Inchi: InChI=1S/C10H16O/c1-8(2)10-5-3-9(7-11)4-6-10/h3,10-11H,1,4-7H2,2H3/t10-/m0/s1
InchiKey: NDTYTMIUWGWIMO-JTQLQIEISA-N
Formula: C10H16O
SMILES: C=C(C)C1CC=C(CO)CC1
Mol. weight [g/mol]: 152.23
CAS: 18457-55-1

Physical Properties

Property code	Value	Unit	Source
gf	20.57	kJ/mol	Joback Method
hf	-185.69	kJ/mol	Joback Method
hfus	15.82	kJ/mol	Joback Method
hvap	55.33	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.281		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	3042.32	kPa	Joback Method
ripol	2004.00		NIST Webbook
ripol	1994.00		NIST Webbook
tb	540.63	K	Joback Method
tc	736.52	K	Joback Method
tf	268.22	K	Joback Method
vc	0.515	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.83	J/mol×K	540.63	Joback Method
cpg	345.48	J/mol×K	573.28	Joback Method
cpg	359.35	J/mol×K	605.93	Joback Method
cpg	372.48	J/mol×K	638.57	Joback Method
cpg	384.90	J/mol×K	671.22	Joback Method
cpg	396.63	J/mol×K	703.87	Joback Method

cpg	407.69	J/mol×K	736.52	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18457551&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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