

[1,1'-Bicyclohexyl]-4-ol

Other names:	[Bicyclohexyl]-4-ol 4-Cyclohexylcyclohexanol
Inchi:	InChI=1S/C12H22O/c13-12-8-6-11(7-9-12)10-4-2-1-3-5-10/h10-13H,1-9H2
InchiKey:	AFKMHDZOVNDWLO-UHFFFAOYSA-N
Formula:	C12H22O
SMILES:	OC1CCC(C2CCCCC2)CC1
Mol. weight [g/mol]:	182.30
CAS:	2433-14-9

Physical Properties

Property code	Value	Unit	Source
gf	-45.47	kJ/mol	Joback Method
hf	-354.94	kJ/mol	Joback Method
hfus	15.67	kJ/mol	Joback Method
hvap	59.53	kJ/mol	Joback Method
log10ws	-3.53		Crippen Method
logp	3.118		Crippen Method
mvol	164.090	ml/mol	McGowan Method
pc	2767.17	kPa	Joback Method
tb	600.57	K	Joback Method
tc	814.45	K	Joback Method
tf	296.34	K	Joback Method
vc	0.592	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.49	J/mol×K	600.57	Joback Method
cpg	483.88	J/mol×K	636.22	Joback Method
cpg	503.97	J/mol×K	671.86	Joback Method
cpg	522.78	J/mol×K	707.51	Joback Method
cpg	540.37	J/mol×K	743.16	Joback Method
cpg	556.76	J/mol×K	778.80	Joback Method
cpg	571.98	J/mol×K	814.45	Joback Method

dvisc	0.0220117	Paxs	296.34	Joback Method
dvisc	0.0046330	Paxs	347.05	Joback Method
dvisc	0.0014508	Paxs	397.75	Joback Method
dvisc	0.0005908	Paxs	448.45	Joback Method
dvisc	0.0002887	Paxs	499.16	Joback Method
dvisc	0.0001610	Paxs	549.87	Joback Method
dvisc	0.0000991	Paxs	600.57	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2433149&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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