

Cyclohexanol, 2-(1-methylethyl)-

Other names:	Cyclohexanol, 2-isopropyl- 2-Isopropylcyclohexanol 2-isopropylcyclohexan-1-ol
Inchi:	InChI=1S/C9H18O/c1-7(2)8-5-3-4-6-9(8)10/h7-10H,3-6H2,1-2H3
InchiKey:	IXVGVVQGNQZQGD-UHFFFAOYSA-N
Formula:	C9H18O
SMILES:	CC(C)C1CCCCC1O
Mol. weight [g/mol]:	142.24
CAS:	96-07-1

Physical Properties

Property code	Value	Unit	Source
gf	-97.62	kJ/mol	Joback Method
hf	-352.62	kJ/mol	Joback Method
hfus	12.54	kJ/mol	Joback Method
hvap	52.04	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.194		Crippen Method
mcvol	132.680	ml/mol	McGowan Method
pc	3052.41	kPa	Joback Method
tb	511.94	K	Joback Method
tc	704.02	K	Joback Method
tf	240.15	K	Joback Method
vc	0.484	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	321.72	J/mol×K	511.94	Joback Method
cpg	338.12	J/mol×K	543.95	Joback Method
cpg	353.74	J/mol×K	575.97	Joback Method
cpg	368.59	J/mol×K	607.98	Joback Method
cpg	382.69	J/mol×K	639.99	Joback Method
cpg	396.05	J/mol×K	672.01	Joback Method

cpg	408.69	J/mol×K	704.02	Joback Method
dvisc	0.0730257	Paxs	240.15	Joback Method
dvisc	0.0115413	Paxs	285.45	Joback Method
dvisc	0.0030234	Paxs	330.75	Joback Method
dvisc	0.0010937	Paxs	376.04	Joback Method
dvisc	0.0004923	Paxs	421.34	Joback Method
dvisc	0.0002588	Paxs	466.64	Joback Method
dvisc	0.0001524	Paxs	511.94	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C96071&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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