

Cyclohexanol, 2-butyl-

Inchi:	InChI=1S/C10H20O/c1-2-3-6-9-7-4-5-8-10(9)11/h9-11H,2-8H2,1H3
InchiKey:	LVDALGYBEFALAP-UHFFFAOYSA-N
Formula:	C10H20O
SMILES:	CCCCC1CCCCC1O
Mol. weight [g/mol]:	156.27
CAS:	36159-49-6

Physical Properties

Property code	Value	Unit	Source
gf	-86.76	kJ/mol	Joback Method
hf	-367.98	kJ/mol	Joback Method
hfus	18.65	kJ/mol	Joback Method
hvap	54.65	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	2.728		Crippen Method
mvol	146.770	ml/mol	McGowan Method
pc	2729.71	kPa	Joback Method
tb	535.26	K	Joback Method
tc	721.21	K	Joback Method
tf	266.42	K	Joback Method
vc	0.546	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.43	J/molxK	535.26	Joback Method
cpg	386.13	J/molxK	566.25	Joback Method
cpg	402.05	J/molxK	597.24	Joback Method
cpg	417.20	J/molxK	628.24	Joback Method
cpg	431.60	J/molxK	659.23	Joback Method
cpg	445.27	J/molxK	690.22	Joback Method
cpg	458.23	J/molxK	721.21	Joback Method
dvisc	0.0295183	Paxs	266.42	Joback Method
dvisc	0.0063338	Paxs	311.23	Joback Method

dvisc	0.0020021	Paxs	356.03	Joback Method
dvisc	0.0008187	Paxs	400.84	Joback Method
dvisc	0.0004007	Paxs	445.65	Joback Method
dvisc	0.0002235	Paxs	490.45	Joback Method
dvisc	0.0001375	Paxs	535.26	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C36159496&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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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