

1-Cyclohexyl-2-buten-1-ol (c,t)

Inchi:	InChI=1S/C10H18O/c1-2-6-10(11)9-7-4-3-5-8-9/h2,6,9-11H,3-5,7-8H2,1H3/b6-2+
InchiKey:	WZII BXRII UAFOT-QHHAFS JGSA-N
Formula:	C10H18O
SMILES:	CC=CC(O)C1CCCCC1
Mol. weight [g/mol]:	154.25
CAS:	79605-62-2

Physical Properties

Property code	Value	Unit	Source
gf	-1.27	kJ/mol	Joback Method
hf	-235.70	kJ/mol	Joback Method
hfus	14.26	kJ/mol	Joback Method
hvap	54.53	kJ/mol	Joback Method
log10ws	-2.89		Crippen Method
logp	2.504		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	3015.64	kPa	Joback Method
tb	543.65	K	Joback Method
tc	741.92	K	Joback Method
tf	250.58	K	Joback Method
vc	0.521	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.70	J/molxK	543.65	Joback Method
cpg	367.04	J/molxK	576.69	Joback Method
cpg	382.48	J/molxK	609.74	Joback Method
cpg	397.04	J/molxK	642.78	Joback Method
cpg	410.76	J/molxK	675.83	Joback Method
cpg	423.69	J/molxK	708.87	Joback Method
cpg	435.86	J/molxK	741.92	Joback Method
dvisc	0.0769685	Paxs	250.58	Joback Method
dvisc	0.0101634	Paxs	299.43	Joback Method

dvisc	0.0023681	Paxs	348.27	Joback Method
dvisc	0.0007896	Paxs	397.12	Joback Method
dvisc	0.0003349	Paxs	445.96	Joback Method
dvisc	0.0001682	Paxs	494.80	Joback Method
dvisc	0.0000956	Paxs	543.65	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C79605622&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

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/36-856-2/1-Cyclohexyl-2-buten-1-ol-c-t.pdf>

Generated by Cheméo on 2024-04-23 21:40:25.240591038 +0000 UTC m=+16197674.161168350.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.