

Cyclobutanol, 3-tert-butyl-, cis-

Inchi:	InChI=1S/C8H16O/c1-8(2,3)6-4-7(9)5-6/h6-7,9H,4-5H2,1-3H3/t6-,7+
InchiKey:	QTUJAHPEPCHIKC-KNVOCYPGSA-N
Formula:	C8H16O
SMILES:	CC(C)(C)C1CC(O)C1
Mol. weight [g/mol]:	128.21
CAS:	20588-76-5

Physical Properties

Property code	Value	Unit	Source
gf	-76.56	kJ/mol	Joback Method
hf	-323.13	kJ/mol	Joback Method
hfus	10.26	kJ/mol	Joback Method
hvap	48.56	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.803		Crippen Method
mcvol	118.590	ml/mol	McGowan Method
pc	3254.14	kPa	Joback Method
tb	477.73	K	Joback Method
tc	665.75	K	Joback Method
tf	253.34	K	Joback Method
vc	0.440	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.61	J/molxK	477.73	Joback Method
cpg	344.04	J/molxK	634.41	Joback Method
cpg	332.43	J/molxK	603.08	Joback Method
cpg	320.13	J/molxK	571.74	Joback Method
cpg	307.08	J/molxK	540.40	Joback Method
cpg	293.25	J/molxK	509.07	Joback Method
cpg	354.98	J/molxK	665.75	Joback Method
dvisc	0.0002827	Paxs	477.73	Joback Method
dvisc	0.0004388	Paxs	440.33	Joback Method

dvisc	0.0007391	Paxs	402.93	Joback Method
dvisc	0.0013851	Paxs	365.53	Joback Method
dvisc	0.0029953	Paxs	328.14	Joback Method
dvisc	0.0078992	Paxs	290.74	Joback Method
dvisc	0.0277371	Paxs	253.34	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C20588765&Units=SI

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

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