2-Cyclobutyl-2-propanol

Other names: cyclobutanemethanol, «alpha»,«alpha»-dimethyl-
Inchi: InChI=1S/C7H14O/c1-7(2,8)6-4-3-5-6/h6,8H,3-5H2,1-2H3
InchiKey: XVOCZBPSPXMFPW-UHFFFAOYSA-N
Formula: C7H14O
SMILES: CC(C)(O)C1CCC1
Mol. weight [g/mol]: 114.19
CAS: 59383-67-4

Physical Properties

Property code	Value	Unit	Source
gf	-77.27	kJ/mol	Joback Method
hf	-282.15	kJ/mol	Joback Method
hfus	6.59	kJ/mol	Joback Method
hvap	46.64	kJ/mol	Joback Method
log10ws	-1.78		Crippen Method
logp	1.557		Crippen Method
mcvol	104.500	ml/mol	McGowan Method
pc	3791.65	kPa	Joback Method
tb	459.52	K	Joback Method
tc	649.91	K	Joback Method
tf	246.31	K	Joback Method
vc	0.385	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	234.57	J/mol×K	459.52	Joback Method
cpg	248.03	J/mol×K	491.25	Joback Method
cpg	260.69	J/mol×K	522.98	Joback Method
cpg	272.57	J/mol×K	554.72	Joback Method
cpg	283.72	J/mol×K	586.45	Joback Method
cpg	294.19	J/mol×K	618.18	Joback Method
cpg	304.02	J/mol×K	649.91	Joback Method
dvisc	0.0437686	Pa×s	246.31	Joback Method

dvisc	0.0114056	Pa×s	281.85	Joback Method
dvisc	0.0040166	Pa×s	317.38	Joback Method
dvisc	0.0017453	Pa×s	352.91	Joback Method
dvisc	0.0008833	Pa×s	388.45	Joback Method
dvisc	0.0005011	Pa×s	423.99	Joback Method
dvisc	0.0003103	Pa×s	459.52	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C59383674&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume