2-Propanol, 2-methyl-d

Inchi: InChI=1S/C4H10O/c1-4(2,3)5/h5H,1-3H3/i5D
InchiKey: DKGAVHZHDRPRBM-UICOGKGYSA-N
Formula: C4H9DO
SMILES: CC(C)(C)O
Mol. weight [g/mol]: 75.13

Physical Properties

Property code	Value	Unit	Source
gf	-151.18	kJ/mol	Joback Method
hf	-286.87	kJ/mol	Joback Method
hfus	2.79	kJ/mol	Joback Method
hvap	39.88	kJ/mol	Joback Method
log10ws	-0.87		Crippen Method
logp	0.777		Crippen Method
mcvol	73.090	ml/mol	McGowan Method
pc	4498.26	kPa	Joback Method
tb	379.87	K	Joback Method
tc	552.43	K	Joback Method
tf	198.08	K	Joback Method
vc	0.268	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	135.92	J/mol×K	379.87	Joback Method
cpg	144.16	J/mol×K	408.63	Joback Method
cpg	151.98	J/mol×K	437.39	Joback Method
cpg	159.41	J/mol×K	466.15	Joback Method
cpg	166.45	J/mol×K	494.91	Joback Method
cpg	173.13	J/mol×K	523.67	Joback Method
cpg	179.46	J/mol×K	552.43	Joback Method
dvisc	0.2371823	Pa×s	198.08	Joback Method
dvisc	0.0402785	Pa×s	228.38	Joback Method
dvisc	0.0103620	Pa×s	258.68	Joback Method

dvisc	0.0035437	Pa×s	288.98	Joback Method
dvisc	0.0014856	Pa×s	319.27	Joback Method
dvisc	0.0007241	Pa×s	349.57	Joback Method
dvisc	0.0003958	Pa×s	379.87	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=B6010145&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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