

Isopropoxyacetic acid

Inchi:	InChI=1S/C5H10O3/c1-4(2)8-3-5(6)7/h4H,3H2,1-2H3,(H,6,7)
InchiKey:	OAIRTVZAAFZBMR-UHFFFAOYSA-N
Formula:	C5H10O3
SMILES:	CC(C)OCC(=O)O
Mol. weight [g/mol]:	118.13
CAS:	33445-07-7

Physical Properties

Property code	Value	Unit	Source
gf	-381.96	kJ/mol	Joback Method
hf	-548.84	kJ/mol	Joback Method
hfus	12.06	kJ/mol	Joback Method
hvap	52.17	kJ/mol	Joback Method
log10ws	-0.21		Crippen Method
logp	0.496		Crippen Method
mcvol	94.620	ml/mol	McGowan Method
pc	4151.61	kPa	Joback Method
tb	481.83	K	Joback Method
tc	657.66	K	Joback Method
tf	264.09	K	Joback Method
vc	0.352	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.80	J/mol×K	481.83	Joback Method
cpg	212.77	J/mol×K	511.13	Joback Method
cpg	220.46	J/mol×K	540.44	Joback Method
cpg	227.87	J/mol×K	569.74	Joback Method
cpg	235.00	J/mol×K	599.05	Joback Method
cpg	241.86	J/mol×K	628.35	Joback Method
cpg	248.43	J/mol×K	657.66	Joback Method
dvisc	0.0255824	Pa×s	264.09	Joback Method
dvisc	0.0067671	Pa×s	300.38	Joback Method

dvisc	0.0023843	Pa×s	336.67	Joback Method
dvisc	0.0010292	Pa×s	372.96	Joback Method
dvisc	0.0005156	Pa×s	409.25	Joback Method
dvisc	0.0002891	Pa×s	445.54	Joback Method
dvisc	0.0001769	Pa×s	481.83	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C33445077&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
mcvol:	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/87-988-0/Isopropoxyacetic-acid.pdf>

Generated by Cheméo on 2025-12-24 00:35:49.659255958 +0000 UTC m=+6284747.189296612.

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