

2-[2-(2-Isopentoxyethoxy)ethoxy]ethanol

Inchi:	InChI=1S/C11H24O4/c1-11(2)3-5-13-7-9-15-10-8-14-6-4-12/h11-12H,3-10H2,1-2H3
InchiKey:	KEMFXYQWQLPSQF-UHFFFAOYSA-N
Formula:	C11H24O4
SMILES:	CC(C)CCOCCOCCOCCO
Mol. weight [g/mol]:	220.31

Physical Properties

Property code	Value	Unit	Source
gf	-412.52	kJ/mol	Joback Method
hf	-824.54	kJ/mol	Joback Method
hfus	28.38	kJ/mol	Joback Method
hvap	63.60	kJ/mol	Joback Method
log10ws	-0.71		Crippen Method
logp	1.075		Crippen Method
mcvol	189.330	ml/mol	McGowan Method
pc	2019.95	kPa	Joback Method
rinpol	1611.00		NIST Webbook
rinpol	1611.00		NIST Webbook
tb	610.08	K	Joback Method
tc	771.77	K	Joback Method
tf	326.24	K	Joback Method
vc	0.719	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	511.08	J/molxK	610.08	Joback Method
cpg	524.95	J/molxK	637.03	Joback Method
cpg	538.32	J/molxK	663.98	Joback Method
cpg	551.19	J/molxK	690.92	Joback Method
cpg	563.55	J/molxK	717.87	Joback Method
cpg	575.40	J/molxK	744.82	Joback Method
cpg	586.74	J/molxK	771.77	Joback Method
dvisc	0.0053589	Paxs	326.24	Joback Method

dvisc	0.0013935	Paxs	373.55	Joback Method
dvisc	0.0004905	Paxs	420.85	Joback Method
dvisc	0.0002132	Paxs	468.16	Joback Method
dvisc	0.0001080	Paxs	515.47	Joback Method
dvisc	0.0000613	Paxs	562.77	Joback Method
dvisc	0.0000380	Paxs	610.08	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R188522&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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