

2-(2-(2-Isopentoxy-ethoxy)-ethoxy)-ethoxy)-ethane

Inchi:	InChI=1S/C13H28O5/c1-13(2)3-5-15-7-9-17-11-12-18-10-8-16-6-4-14/h13-14H,3-12H2,1
InchiKey:	NNLUQPJLMQSDXDD-UHFFFAOYSA-N
Formula:	C13H28O5
SMILES:	CC(C)CCOCCOCCOCCOCCO
Mol. weight [g/mol]:	264.36

Physical Properties

Property code	Value	Unit	Source
gf	-500.68	kJ/mol	Joback Method
hf	-998.04	kJ/mol	Joback Method
hfus	34.74	kJ/mol	Joback Method
hvap	70.46	kJ/mol	Joback Method
log10ws	-0.64		Crippen Method
logp	1.091		Crippen Method
mvol	223.380	ml/mol	McGowan Method
pc	1687.95	kPa	Joback Method
rinpol	1896.70		NIST Webbook
rinpol	1896.70		NIST Webbook
tb	678.26	K	Joback Method
tc	842.32	K	Joback Method
tf	371.01	K	Joback Method
vc	0.849	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	646.23	J/molxK	678.26	Joback Method
cpg	715.53	J/molxK	814.98	Joback Method
cpg	702.94	J/molxK	787.63	Joback Method
cpg	689.71	J/molxK	760.29	Joback Method
cpg	675.84	J/molxK	732.95	Joback Method
cpg	661.34	J/molxK	705.60	Joback Method
cpg	727.47	J/molxK	842.32	Joback Method
dvisc	0.0000186	Paxs	678.26	Joback Method

dvisc	0.0000293	Paxs	627.05	Joback Method
dvisc	0.0000501	Paxs	575.84	Joback Method
dvisc	0.0000950	Paxs	524.63	Joback Method
dvisc	0.0002072	Paxs	473.43	Joback Method
dvisc	0.0005458	Paxs	422.22	Joback Method
dvisc	0.0018781	Paxs	371.01	Joback Method

Sources

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=R188537&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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