

2-(2-(2-(2-(2-Isobutoxy-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethyl acetate

Inchi:

NKHWHOCQJPKIFZ-UHFFFAOYSA-N

InchiKey:

Formula:

C18H36O8

SMILES:

CC(=O)OCCOCCOCCOCCOCCOCCOCC(C)C

Mol. weight [g/mol]:

380.47

Physical Properties

Property code	Value	Unit	Source
gf	-765.68	kJ/mol	Joback Method
hf	-1458.25	kJ/mol	Joback Method
hfus	48.77	kJ/mol	Joback Method
hvap	78.89	kJ/mol	Joback Method
log10ws	-0.50		Crippen Method
logp	1.305		Crippen Method
mcvol	307.140	ml/mol	McGowan Method
pc	1115.57	kPa	Joback Method
rinpol	2494.30		NIST Webbook
tb	821.61	K	Joback Method
tc	1006.50	K	Joback Method
tf	483.16	K	Joback Method
vc	1.169	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	981.77	J/mol×K	821.61	Joback Method
cpg	1058.01	J/mol×K	975.69	Joback Method
cpg	1045.36	J/mol×K	944.87	Joback Method
cpg	1031.38	J/mol×K	914.06	Joback Method
cpg	1016.10	J/mol×K	883.24	Joback Method
cpg	999.55	J/mol×K	852.43	Joback Method
cpg	1069.29	J/mol×K	1006.50	Joback Method
dvisc	0.0000160	Pa×s	821.61	Joback Method
dvisc	0.0000212	Pa×s	765.20	Joback Method

dvisc	0.0000294	Pa×s	708.79	Joback Method
dvisc	0.0000432	Pa×s	652.38	Joback Method
dvisc	0.0000681	Pa×s	595.98	Joback Method
dvisc	0.0001182	Pa×s	539.57	Joback Method
dvisc	0.0002335	Pa×s	483.16	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=R188111&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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