2-(2-(2-(2-(2-(2-(2-(2-Pentoxy-ethoxy)-ethoxy)-etho acetate

Inchi: InChI=1S/C25H50O11/c1-3-4-5-6-27-7-8-28-9-10-29-11-12-30-13-14-31-15-16-32-17-18

InchiKey: CBKFKRKAIVSJHB-UHFFFAOYSA-N

Formula: C25H50O11

SMILES: CCCCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 526.66

Physical Properties

Property code	Value	Unit	Source
gf	-1019.30	kJ/mol	Joback Method
hf	-1994.11	kJ/mol	Joback Method
hfus	73.99	kJ/mol	Joback Method
hvap	102.09	kJ/mol	Joback Method
log10ws	-0.94		Crippen Method
logp	1.889		Crippen Method
mcvol	423.380	ml/mol	McGowan Method
pc	720.69	kPa	Joback Method
rinpol	3476.20		NIST Webbook
rinpol	3476.20		NIST Webbook
tb	1049.47	K	Joback Method
tc	1330.55	K	Joback Method
tf	643.74	K	Joback Method
vc	1.621	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1504.91	J/mol×K	1049.47	Joback Method
cpg	1534.34	J/mol×K	1283.70	Joback Method
cpg	1538.76	J/mol×K	1236.86	Joback Method
cpg	1537.86	J/mol×K	1190.01	Joback Method
cpg	1531.81	J/mol×K	1143.16	Joback Method
cpg	1520.77	J/mol×K	1096.32	Joback Method
cpg	1524.43	J/mol×K	1330.55	Joback Method
dvisc	0.0000022	Pa×s	1049.47	Joback Method

dvisc	0.0000029	Pa×s	981.85	Joback Method
dvisc	0.0000039	Pa×s	914.23	Joback Method
dvisc	0.0000057	Pa×s	846.61	Joback Method
dvisc	0.0000087	Pa×s	778.98	Joback Method
dvisc	0.0000143	Pa×s	711.36	Joback Method
dvisc	0.0000264	Pa×s	643.74	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R187772&Units=SI
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

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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