

2-(2-(2-(2-(2-(2-nonyloxy-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxyacetate

Inchi:

RTAPYZKBOMVSGU-UHFFFAOYSA-N

InchiKey:

Formula:

C25H50O9

SMILES:

CCCCCCCCCOCCOCCOCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]:

494.66

Physical Properties

Property code	Value	Unit	Source
gf	-809.30	kJ/mol	Joback Method
hf	-1729.67	kJ/mol	Joback Method
hfus	71.61	kJ/mol	Joback Method
hvap	97.27	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	3.416		Crippen Method
mcvol	411.640	ml/mol	McGowan Method
pc	734.03	kPa	Joback Method
rinpol	3312.40		NIST Webbook
rinpol	3312.40		NIST Webbook
tb	1004.63	K	Joback Method
tc	1257.55	K	Joback Method
tf	599.28	K	Joback Method
vc	1.585	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1448.43	J/mol×K	1004.63	Joback Method
cpg	1510.46	J/mol×K	1215.40	Joback Method
cpg	1504.99	J/mol×K	1173.25	Joback Method
cpg	1495.99	J/mol×K	1131.09	Joback Method
cpg	1483.51	J/mol×K	1088.94	Joback Method
cpg	1467.63	J/mol×K	1046.78	Joback Method
cpg	1512.31	J/mol×K	1257.55	Joback Method
dvisc	0.0000042	Pa×s	1004.63	Joback Method

dvisc	0.0000055	Pa×s	937.07	Joback Method
dvisc	0.0000076	Pa×s	869.51	Joback Method
dvisc	0.0000111	Pa×s	801.95	Joback Method
dvisc	0.0000174	Pa×s	734.40	Joback Method
dvisc	0.0000298	Pa×s	666.84	Joback Method
dvisc	0.0000574	Pa×s	599.28	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=R184015&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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