

2-[2-[2-[2-[2-[2-[2-[2-(2-Acetyloxyethoxy)ethoxy]et

Other names:
acetate

Nonaethylene glycol, diacetate

28-Oxo-3,6,9,12,15,18,21,24,27-nonaoxanonacos-1-yl acetate

Inchi: InChI=1S/C22H42O12/c1-21(23)33-19-17-31-15-13-29-11-9-27-7-5-25-3-4-26-6-8-28-10

InchiKey: LJIHNOTXDOHMJC-UHFFFAOYSA-N

Formula: C22H42O12

SMILES: CC(=O)OCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 498.56

Physical Properties

Property code	Value	Unit	Source
gf	-1173.48	kJ/mol	Joback Method
hf	-2044.77	kJ/mol	Joback Method
hfus	67.81	kJ/mol	Joback Method
hvap	102.16	kJ/mol	Joback Method
log10ws	0.54		Crippen Method
logp	0.245		Crippen Method
mcvol	382.680	ml/mol	McGowan Method
pc	878.44	kPa	Joback Method
rinpol	3192.00		NIST Webbook
rinpol	3195.00		NIST Webbook
rinpol	3190.00		NIST Webbook
rinpol	3200.00		NIST Webbook
rinpol	3175.00		NIST Webbook
rinpol	3191.00		NIST Webbook
rinpol	3190.00		NIST Webbook
rinpol	3190.00		NIST Webbook
rinpol	3200.00		NIST Webbook
rinpol	3194.00		NIST Webbook
rinpol	3192.00		NIST Webbook
rinpol	3190.00		NIST Webbook
rinpol	3191.00		NIST Webbook
rinpol	3200.00		NIST Webbook
rinpol	3200.00		NIST Webbook
rinpol	3191.00		NIST Webbook
tb	1034.70	K	Joback Method
tc	1293.48	K	Joback Method
tf	659.86	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1330.35	J/molxK	1034.70	Joback Method
cpg	1343.10	J/molxK	1077.83	Joback Method
cpg	1351.96	J/molxK	1120.96	Joback Method
cpg	1356.78	J/molxK	1164.09	Joback Method
cpg	1357.41	J/molxK	1207.22	Joback Method
cpg	1353.69	J/molxK	1250.35	Joback Method
cpg	1345.47	J/molxK	1293.48	Joback Method
dvisc	0.0000315	Paxs	659.86	Joback Method
dvisc	0.0000184	Paxs	722.33	Joback Method
dvisc	0.0000117	Paxs	784.81	Joback Method
dvisc	0.0000080	Paxs	847.28	Joback Method
dvisc	0.0000057	Paxs	909.75	Joback Method
dvisc	0.0000043	Paxs	972.23	Joback Method
dvisc	0.0000033	Paxs	1034.70	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351905&Units=SI
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

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

