

# 2-(2-(2-(2-(2-(2-nonyloxy-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy)-acetate

Other names:  
acetate

Hexaethylene glycol, nonyl ether, acetate

Inchi: InChI=1S/C23H46O8/c1-3-4-5-6-7-8-9-10-25-11-12-26-13-14-27-15-16-28-17-18-29-19-2

InchiKey: ATMVTWVMEZFNPF-UHFFFAOYSA-N

Formula: C23H46O8

SMILES: CCCCCCCCCOCCOCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 450.61

## Physical Properties

Property code	Value	Unit	Source
gf	-721.14	kJ/mol	Joback Method
hf	-1556.17	kJ/mol	Joback Method
hfus	65.24	kJ/mol	Joback Method
hvap	90.41	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	3.400		Crippen Method
mvol	377.590	ml/mol	McGowan Method
pc	824.79	kPa	Joback Method
rinpol	3036.60		NIST Webbook
rinpol	3036.60		NIST Webbook
tb	936.45	K	Joback Method
tc	1155.37	K	Joback Method
tf	554.51	K	Joback Method
vc	1.456	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1291.63	J/molxK	936.45	Joback Method
cpg	1311.27	J/molxK	972.94	Joback Method
cpg	1328.75	J/molxK	1009.42	Joback Method
cpg	1344.03	J/molxK	1045.91	Joback Method
cpg	1357.07	J/molxK	1082.40	Joback Method
cpg	1367.84	J/molxK	1118.89	Joback Method
cpg	1376.29	J/molxK	1155.37	Joback Method

dvisc	0.0001105	Paxs	554.51	Joback Method
dvisc	0.0000569	Paxs	618.17	Joback Method
dvisc	0.0000331	Paxs	681.82	Joback Method
dvisc	0.0000212	Paxs	745.48	Joback Method
dvisc	0.0000145	Paxs	809.14	Joback Method
dvisc	0.0000105	Paxs	872.79	Joback Method
dvisc	0.0000080	Paxs	936.45	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R184095&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R184095&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/73-679-8/2-2-2-2-2-nonyloxy-ethoxy-ethoxy-ethoxy-ethoxy-ethoxy-ethanol-acetate.pdf>

Generated by Cheméo on 2024-04-24 19:42:17.000253743 +0000 UTC m=+16276985.920831066.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.