

# 2-(2-(2-(2-(2-(2-(2-decyloxy-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy)acetate

InChI: InChI=1S/C26H52O9/c1-3-4-5-6-7-8-9-10-11-28-12-13-29-14-15-30-16-17-31-18-19-32-2  
InChIKey: IWUMFFZTOFKWPR-UHFFFAOYSA-N

Formula: C26H52O9

SMILES: CCCCCCCCCOCCOCCOCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 508.69

## Physical Properties

Property code	Value	Unit	Source
gf	-800.88	kJ/mol	Joback Method
hf	-1750.31	kJ/mol	Joback Method
hfus	74.20	kJ/mol	Joback Method
hvap	99.50	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	3.806		Crippen Method
mcvol	425.730	ml/mol	McGowan Method
pc	697.28	kPa	Joback Method
rinpol	3415.20		NIST Webbook
tb	1027.51	K	Joback Method
tc	1294.98	K	Joback Method
tf	610.55	K	Joback Method
vc	1.641	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1511.44	J/molxK	1027.51	Joback Method
cpg	1568.35	J/molxK	1250.40	Joback Method
cpg	1564.94	J/molxK	1205.82	Joback Method
cpg	1557.47	J/molxK	1161.24	Joback Method
cpg	1546.01	J/molxK	1116.67	Joback Method
cpg	1530.64	J/molxK	1072.09	Joback Method
cpg	1567.60	J/molxK	1294.98	Joback Method
dvisc	0.0000036	Paxs	1027.51	Joback Method
dvisc	0.0000047	Paxs	958.02	Joback Method

dvisc	0.0000065	Paxs	888.52	Joback Method
dvisc	0.0000095	Paxs	819.03	Joback Method
dvisc	0.0000149	Paxs	749.54	Joback Method
dvisc	0.0000257	Paxs	680.04	Joback Method
dvisc	0.0000501	Paxs	610.55	Joback Method

## Sources

<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>
<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=R183983&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R183983&amp;Units=SI</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>mcvol:</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

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