

# Decaethylene glycol, monoallyl ether, acetate

Inchi: InChI=1S/C25H48O12/c1-3-4-27-5-6-28-7-8-29-9-10-30-11-12-31-13-14-32-15-16-33-17

InchiKey: ZAJPTYZVTJIYMH-UHFFFAOYSA-N

Formula: C<sub>25</sub>H<sub>48</sub>O<sub>12</sub>

SMILES: C=CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCC(C)=O

Mol. weight [g/mol]: 540.64

## Physical Properties

Property code	Value	Unit	Source
gf	-1036.46	kJ/mol	Joback Method
hf	-2000.90	kJ/mol	Joback Method
hfus	73.89	kJ/mol	Joback Method
hvap	103.83	kJ/mol	Joback Method
log10ws	0.12		Crippen Method
logp	0.902		Crippen Method
mvol	424.950	ml/mol	McGowan Method
pc	730.46	kPa	Joback Method
rinpol	3296.00		NIST Webbook
rinpol	3298.00		NIST Webbook
rinpol	3304.00		NIST Webbook
rinpol	3297.00		NIST Webbook
rinpol	3298.00		NIST Webbook
rinpol	3296.00		NIST Webbook
rinpol	3300.00		NIST Webbook
rinpol	3300.00		NIST Webbook
rinpol	3300.00		NIST Webbook
rinpol	3300.00		NIST Webbook
rinpol	3296.00		NIST Webbook
rinpol	3300.00		NIST Webbook
rinpol	3300.00		NIST Webbook
rinpol	3300.00		NIST Webbook
rinpol	3300.00		NIST Webbook
rinpol	3298.00		NIST Webbook
tb	1068.57	K	Joback Method
tc	1359.49	K	Joback Method
tf	664.21	K	Joback Method
vc	1.621	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1500.50	J/molxK	1068.57	Joback Method
cpg	1513.61	J/molxK	1117.06	Joback Method
cpg	1521.31	J/molxK	1165.54	Joback Method
cpg	1523.38	J/molxK	1214.03	Joback Method
cpg	1519.61	J/molxK	1262.52	Joback Method
cpg	1509.80	J/molxK	1311.01	Joback Method
cpg	1493.72	J/molxK	1359.49	Joback Method
dvisc	0.0000189	Paxs	664.21	Joback Method
dvisc	0.0000106	Paxs	731.60	Joback Method
dvisc	0.0000065	Paxs	799.00	Joback Method
dvisc	0.0000043	Paxs	866.39	Joback Method
dvisc	0.0000031	Paxs	933.78	Joback Method
dvisc	0.0000023	Paxs	1001.18	Joback Method
dvisc	0.0000017	Paxs	1068.57	Joback Method

## Sources

<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=R151901&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R151901&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## 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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