

# Octapropylene glycol, diacetate

**Inchi:** InChI=1S/C28H54O11/c1-19(11-32-21(3)13-34-23(5)15-36-25(7)17-38-27(9)29)31-12-20  
**InchiKey:** PBDJQYVLIIEDBC-UHFFFAOYSA-N  
**Formula:** C28H54O11  
**SMILES:** CC(=O)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OC(C)=O  
**Mol. weight [g/mol]:** 566.72

## Physical Properties

Property code	Value	Unit	Source
gf	-1037.48	kJ/mol	Joback Method
hf	-2078.63	kJ/mol	Joback Method
hfus	53.98	kJ/mol	Joback Method
hvap	110.00	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	3.337		Crippen Method
mcvol	461.350	ml/mol	McGowan Method
pc	668.04	kPa	Joback Method
rinpol	2916.00		NIST Webbook
rinpol	2921.00		NIST Webbook
rinpol	2923.00		NIST Webbook
rinpol	2920.00		NIST Webbook
rinpol	2917.00		NIST Webbook
rinpol	2919.00		NIST Webbook
rinpol	2924.00		NIST Webbook
rinpol	2920.00		NIST Webbook
rinpol	2916.00		NIST Webbook
rinpol	2921.00		NIST Webbook
rinpol	2924.00		NIST Webbook
rinpol	2916.00		NIST Webbook
rinpol	2924.00		NIST Webbook
rinpol	2920.00		NIST Webbook
rinpol	2920.00		NIST Webbook
tb	1146.04	K	Joback Method
tc	1453.35	K	Joback Method
tf	585.25	K	Joback Method
vc	1.730	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1666.64	J/molxK	1146.04	Joback Method
cpg	1674.08	J/molxK	1197.26	Joback Method
cpg	1675.32	J/molxK	1248.48	Joback Method
cpg	1670.20	J/molxK	1299.70	Joback Method
cpg	1658.56	J/molxK	1350.92	Joback Method
cpg	1640.24	J/molxK	1402.13	Joback Method
cpg	1615.10	J/molxK	1453.35	Joback Method
dvisc	0.0000431	Paxs	585.25	Joback Method
dvisc	0.0000138	Paxs	678.72	Joback Method
dvisc	0.0000058	Paxs	772.18	Joback Method
dvisc	0.0000030	Paxs	865.64	Joback Method
dvisc	0.0000017	Paxs	959.11	Joback Method
dvisc	0.0000011	Paxs	1052.57	Joback Method
dvisc	0.0000008	Paxs	1146.04	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R152211&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R152211&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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