

# 2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Hydroxyethoxy)eth

<b>Other names:</b>	Dodecaethylene glycol
<b>Inchi:</b>	InChI=1S/C24H50O13/c25-1-3-27-5-7-29-9-11-31-13-15-33-17-19-35-21-23-37-24-22-36
<b>InchiKey:</b>	WRZXKWFJEFFURH-UHFFFAOYSA-N
<b>Formula:</b>	C24H50O13
<b>SMILES:</b>	OCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCO
<b>Mol. weight [g/mol]:</b>	546.65

## Physical Properties

Property code	Value	Unit	Source
gf	-1277.44	kJ/mol	Joback Method
hf	-2297.57	kJ/mol	Joback Method
hfus	79.16	kJ/mol	Joback Method
hvap	128.89	kJ/mol	Joback Method
log10ws	1.64		Crippen Method
logp	-0.846		Crippen Method
mcvol	425.330	ml/mol	McGowan Method
pc	804.79	kPa	Joback Method
rinpola	3766.10		NIST Webbook
tb	1179.50	K	Joback Method
tc	1628.40	K	Joback Method
tf	726.41	K	Joback Method
vc	1.615	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1550.22	J/mol×K	1179.50	Joback Method
cpg	1549.35	J/mol×K	1254.32	Joback Method
cpg	1534.10	J/mol×K	1329.13	Joback Method
cpg	1503.71	J/mol×K	1403.95	Joback Method
cpg	1457.40	J/mol×K	1478.77	Joback Method
cpg	1394.40	J/mol×K	1553.59	Joback Method
cpg	1313.91	J/mol×K	1628.40	Joback Method
dvisc	0.0000009	Paxs	726.41	Joback Method

dvisc	0.0000003	Paxs	801.92	Joback Method
dvisc	0.0000002	Paxs	877.44	Joback Method
dvisc	8.1818096e-08	Paxs	952.95	Joback Method
dvisc	4.6432361e-08	Paxs	1028.47	Joback Method
dvisc	2.8474097e-08	Paxs	1103.98	Joback Method
dvisc	1.8589698e-08	Paxs	1179.50	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U352127&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U352127&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>
<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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