

# 1,3,6,9,12,14,17,20,22,25,28,31-Dodecaoxacyclotri

<b>Inchi:</b>	InChI=1S/C21H42O12/c1-3-23-7-13-28-19-29-15-9-25-5-6-26-10-16-31-21-33-18-12-27-
<b>InchiKey:</b>	PXHRDVYKHCZYCE-UHFFFAOYSA-N
<b>Formula:</b>	C21H42O12
<b>SMILES:</b>	C1COCCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOC1
<b>Mol. weight [g/mol]:</b>	486.55
<b>CAS:</b>	74485-43-1

## Physical Properties

Property code	Value	Unit	Source
gf	-1202.04	kJ/mol	Joback Method
hf	-2152.43	kJ/mol	Joback Method
hfus	79.96	kJ/mol	Joback Method
hvap	121.84	kJ/mol	Joback Method
log10ws	0.96		Crippen Method
logp	0.072		Crippen Method
mcvol	366.330	ml/mol	McGowan Method
pc	1694.90	kPa	Joback Method
tb	1142.79	K	Joback Method
tc	1441.44	K	Joback Method
tf	561.85	K	Joback Method
vc	1.181	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1365.47	J/molxK	1142.79	Joback Method
cpg	1166.23	J/molxK	1391.66	Joback Method
cpg	1228.85	J/molxK	1341.89	Joback Method
cpg	1279.61	J/molxK	1292.11	Joback Method
cpg	1318.99	J/molxK	1242.34	Joback Method
cpg	1347.46	J/molxK	1192.56	Joback Method
cpg	1091.28	J/molxK	1441.44	Joback Method
dvisc	6.4925157e-11	Paxs	1142.79	Joback Method
dvisc	1.6010917e-10	Paxs	1045.97	Joback Method

dvisc	4.7467558e-10	Paxs	949.14	Joback Method
dvisc	1.8014049e-09	Paxs	852.32	Joback Method
dvisc	9.6225094e-09	Paxs	755.50	Joback Method
dvisc	8.4119898e-08	Paxs	658.67	Joback Method
dvisc	0.0000016	Paxs	561.85	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=C74485431&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C74485431&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>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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