

# 2,4-dichlorobenzyl tetradecyl ether

**Inchi:** InChI=1S/C21H34Cl2O/c1-2-3-4-5-6-7-8-9-10-11-12-13-16-24-18-19-14-15-20(22)17-21  
**InchiKey:** HAAXOBRRZGCQCL-UHFFFAOYSA-N  
**Formula:** C21H34Cl2O  
**SMILES:** CCCCCCCCCCCCCOCc1ccc(Cl)cc1Cl  
**Mol. weight [g/mol]:** 373.40

## Physical Properties

Property code	Value	Unit	Source
gf	90.23	kJ/mol	Joback Method
hf	-426.88	kJ/mol	Joback Method
hfus	52.99	kJ/mol	Joback Method
hvap	77.12	kJ/mol	Joback Method
log10ws	-8.67		Crippen Method
logp	8.211		Crippen Method
mcvol	313.340	ml/mol	McGowan Method
pc	1093.54	kPa	Joback Method
rinpol	2600.00		NIST Webbook
rinpol	2600.00		NIST Webbook
rinpol	2600.00		NIST Webbook
rinpol	2594.00		NIST Webbook
rinpol	2595.00		NIST Webbook
rinpol	2600.00		NIST Webbook
rinpol	2589.00		NIST Webbook
rinpol	2594.00		NIST Webbook
rinpol	2600.00		NIST Webbook
rinpol	2600.00		NIST Webbook
rinpol	2588.00		NIST Webbook
rinpol	2588.00		NIST Webbook
tb	813.80	K	Joback Method
tc	1008.30	K	Joback Method
tf	459.96	K	Joback Method
vc	1.220	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	924.53	J/molxK	813.80	Joback Method
cpg	942.32	J/molxK	846.22	Joback Method
cpg	959.07	J/molxK	878.63	Joback Method
cpg	974.82	J/molxK	911.05	Joback Method
cpg	989.60	J/molxK	943.46	Joback Method
cpg	1003.45	J/molxK	975.88	Joback Method
cpg	1016.41	J/molxK	1008.30	Joback Method
dvisc	0.0006528	Paxs	459.96	Joback Method
dvisc	0.0003364	Paxs	518.93	Joback Method
dvisc	0.0001985	Paxs	577.91	Joback Method
dvisc	0.0001291	Paxs	636.88	Joback Method
dvisc	0.0000903	Paxs	695.85	Joback Method
dvisc	0.0000668	Paxs	754.83	Joback Method
dvisc	0.0000517	Paxs	813.80	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=R32361&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R32361&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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