

# Glutaric acid, 2,4-dichlorobenzyl hexadecyl ester

Inchi:	InChI=1S/C28H44Cl2O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-21-33-27(31)17-16-18-20
InchiKey:	ZSKRNYBFVZSFMU-UHFFFAOYSA-N
Formula:	C28H44Cl2O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OCc1ccc(Cl)cc1Cl
Mol. weight [g/mol]:	515.55

## Physical Properties

Property code	Value	Unit	Source
gf	-213.67	kJ/mol	Joback Method
hf	-928.74	kJ/mol	Joback Method
hfus	75.51	kJ/mol	Joback Method
hvap	108.60	kJ/mol	Joback Method
log10ws	-10.24		Crippen Method
logp	9.231		Crippen Method
mvol	420.980	ml/mol	McGowan Method
pc	777.21	kPa	Joback Method
rinpol	3661.00		NIST Webbook
rinpol	3661.00		NIST Webbook
tb	1104.12	K	Joback Method
tc	1364.93	K	Joback Method
tf	660.94	K	Joback Method
vc	1.641	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1417.02	J/molxK	1104.12	Joback Method
cpg	1432.66	J/molxK	1147.59	Joback Method
cpg	1446.30	J/molxK	1191.06	Joback Method
cpg	1458.03	J/molxK	1234.52	Joback Method
cpg	1467.93	J/molxK	1277.99	Joback Method
cpg	1476.11	J/molxK	1321.46	Joback Method
cpg	1482.65	J/molxK	1364.93	Joback Method
dvisc	0.0001311	Paxs	660.94	Joback Method

dvisc	0.0000718	Paxs	734.80	Joback Method
dvisc	0.0000439	Paxs	808.67	Joback Method
dvisc	0.0000292	Paxs	882.53	Joback Method
dvisc	0.0000206	Paxs	956.39	Joback Method
dvisc	0.0000153	Paxs	1030.26	Joback Method
dvisc	0.0000119	Paxs	1104.12	Joback Method

## Sources

<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=U376814&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376814&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>

## 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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