

# Diethylmalonic acid, 2-ethoxyethyl propyl ester

Inchi:	InChI=1S/C14H26O5/c1-5-9-18-12(15)14(6-2,7-3)13(16)19-11-10-17-8-4/h5-11H2,1-4H3
InchiKey:	DBIBEKPRHYHVGE-UHFFFAOYSA-N
Formula:	C14H26O5
SMILES:	CCCOC(=O)C(CC)(CC)C(=O)OCCOCC
Mol. weight [g/mol]:	274.35

## Physical Properties

Property code	Value	Unit	Source
gf	-503.00	kJ/mol	Joback Method
hf	-962.86	kJ/mol	Joback Method
hfus	31.36	kJ/mol	Joback Method
hvap	66.18	kJ/mol	Joback Method
log10ws	-2.25		Crippen Method
logp	2.326		Crippen Method
mcvol	228.870	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
rinpol	1586.00		NIST Webbook
tb	691.49	K	Joback Method
tc	874.22	K	Joback Method
tf	416.51	K	Joback Method
vc	0.875	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	653.43	J/molxK	691.49	Joback Method
cpg	669.24	J/molxK	721.94	Joback Method
cpg	684.23	J/molxK	752.40	Joback Method
cpg	698.40	J/molxK	782.85	Joback Method
cpg	711.78	J/molxK	813.31	Joback Method
cpg	724.35	J/molxK	843.76	Joback Method
cpg	736.14	J/molxK	874.22	Joback Method
dvisc	0.0010508	Paxs	416.51	Joback Method
dvisc	0.0005490	Paxs	462.34	Joback Method

dvisc	0.0003225	Paxs	508.17	Joback Method
dvisc	0.0002068	Paxs	554.00	Joback Method
dvisc	0.0001420	Paxs	599.83	Joback Method
dvisc	0.0001028	Paxs	645.66	Joback Method
dvisc	0.0000777	Paxs	691.49	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=U370606&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370606&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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