

# Diethylmalonic acid, tetrahydrofurfuryl tridecyl ester

Inchi:	InChI=1S/C25H46O5/c1-4-7-8-9-10-11-12-13-14-15-16-19-29-23(26)25(5-2,6-3)24(27)30
InchiKey:	YDARTEYDJOOPQP-UHFFFAOYSA-N
Formula:	C25H46O5
SMILES:	CCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)OCC1CCCO1
Mol. weight [g/mol]:	426.63

## Physical Properties

Property code	Value	Unit	Source
gf	-354.95	kJ/mol	Joback Method
hf	-1129.20	kJ/mol	Joback Method
hfus	60.58	kJ/mol	Joback Method
hvap	93.03	kJ/mol	Joback Method
log10ws	-6.86		Crippen Method
logp	6.369		Crippen Method
mcvol	373.000	ml/mol	McGowan Method
pc	898.56	kPa	Joback Method
rinpol	2759.00		NIST Webbook
rinpol	2759.00		NIST Webbook
tb	962.98	K	Joback Method
tc	1179.15	K	Joback Method
tf	555.72	K	Joback Method
vc	1.435	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1308.71	J/molxK	962.98	Joback Method
cpg	1327.92	J/molxK	999.01	Joback Method
cpg	1345.62	J/molxK	1035.04	Joback Method
cpg	1361.89	J/molxK	1071.07	Joback Method
cpg	1376.81	J/molxK	1107.09	Joback Method
cpg	1390.44	J/molxK	1143.12	Joback Method
cpg	1402.87	J/molxK	1179.15	Joback Method
dvisc	0.0004315	Paxs	555.72	Joback Method

dvisc	0.0002058	Paxs	623.60	Joback Method
dvisc	0.0001135	Paxs	691.47	Joback Method
dvisc	0.0000696	Paxs	759.35	Joback Method
dvisc	0.0000463	Paxs	827.23	Joback Method
dvisc	0.0000327	Paxs	895.10	Joback Method
dvisc	0.0000243	Paxs	962.98	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=U370648&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370648&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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