

# Diethylmalonic acid, heptadecyl 2,4,5-trifluorobenzyl ester

Inchi:	InChI=1S/C31H49F3O4/c1-4-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-37-29(35)31(5
InchiKey:	FKRCPQUFMSSHME-UHFFFAOYSA-N
Formula:	C31H49F3O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)OCc1cc(F)c(F)cc1F
Mol. weight [g/mol]:	542.71

## Physical Properties

Property code	Value	Unit	Source
gf	-755.77	kJ/mol	Joback Method
hf	-1567.73	kJ/mol	Joback Method
hfus	76.32	kJ/mol	Joback Method
hvap	103.43	kJ/mol	Joback Method
log10ws	-10.88		Crippen Method
logp	9.368		Crippen Method
mvol	444.080	ml/mol	McGowan Method
pc	646.80	kPa	Joback Method
rinpol	3115.00		NIST Webbook
rinpol	3115.00		NIST Webbook
tb	1097.46	K	Joback Method
tc	1377.66	K	Joback Method
tf	651.62	K	Joback Method
vc	1.754	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1578.41	J/molxK	1097.46	Joback Method
cpg	1598.32	J/molxK	1144.16	Joback Method
cpg	1615.91	J/molxK	1190.86	Joback Method
cpg	1631.36	J/molxK	1237.56	Joback Method
cpg	1644.83	J/molxK	1284.26	Joback Method
cpg	1656.49	J/molxK	1330.96	Joback Method
cpg	1666.50	J/molxK	1377.66	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=U369268&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369268&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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

Latest version available from:

<https://www.chemeo.com/cid/121-938-6/Diethylmalonic-acid-heptadecyl-2-4-5-trifluorobenzyl-ester.pdf>

Generated by Cheméo on 2024-04-27 18:40:55.396114479 +0000 UTC m=+16532504.316691790.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.