

# Diethylmalonic acid, eicosyl 2-fluoro-3-trifluoromethylphenyl ester

Inchi:	InChI=1S/C34H54F4O4/c1-4-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-27-41-3
InchiKey:	SAEOSRXMQZPHSU-UHFFFAOYSA-N
Formula:	C34H54F4O4
SMILES:	CCCCCCCCCCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1cccc(C(F)(F)F)c1F
Mol. weight [g/mol]:	602.78

## Physical Properties

Property code	Value	Unit	Source
gf	-912.85	kJ/mol	Joback Method
hf	-1823.04	kJ/mol	Joback Method
hfus	80.15	kJ/mol	Joback Method
hvap	107.33	kJ/mol	Joback Method
log10ws	-12.31		Crippen Method
logp	11.141		Crippen Method
mvol	488.120	ml/mol	McGowan Method
pc	558.62	kPa	Joback Method
rinpol	3298.00		NIST Webbook
rinpol	3298.00		NIST Webbook
tb	1157.16	K	Joback Method
tc	1483.36	K	Joback Method
tf	675.92	K	Joback Method
vc	1.929	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1779.58	J/molxK	1157.16	Joback Method
cpg	1803.07	J/molxK	1211.53	Joback Method
cpg	1824.24	J/molxK	1265.89	Joback Method
cpg	1843.50	J/molxK	1320.26	Joback Method
cpg	1861.23	J/molxK	1374.62	Joback Method
cpg	1877.83	J/molxK	1428.99	Joback Method
cpg	1893.68	J/molxK	1483.36	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U370724&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370724&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.cheméo.com/cid/48-323-0/Diethylmalonic-acid-eicosyl-2-fluoro-3-trifluoromethylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-27 06:06:43.090529319 +0000 UTC m=+16487252.011106636.

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