

# Diethylmalonic acid, hexyl 2,3,4-trifluorophenyl ester

Inchi:	InChI=1S/C19H25F3O4/c1-4-7-8-9-12-25-17(23)19(5-2,6-3)18(24)26-14-11-10-13(20)15
InchiKey:	BMLTVSLHAFVISG-UHFFFAOYSA-N
Formula:	C19H25F3O4
SMILES:	CCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc(F)c(F)c1F
Mol. weight [g/mol]:	374.39

## Physical Properties

Property code	Value	Unit	Source
gf	-856.81	kJ/mol	Joback Method
hf	-1320.05	kJ/mol	Joback Method
hfus	45.24	kJ/mol	Joback Method
hvap	76.72	kJ/mol	Joback Method
log10ws	-6.01		Crippen Method
logp	4.939		Crippen Method
mcvol	275.000	ml/mol	McGowan Method
pc	1293.93	kPa	Joback Method
rinpol	1989.00		NIST Webbook
rinpol	1989.00		NIST Webbook
tb	822.90	K	Joback Method
tc	1016.39	K	Joback Method
tf	516.38	K	Joback Method
vc	1.083	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	841.26	J/mol×K	822.90	Joback Method
cpg	855.87	J/mol×K	855.15	Joback Method
cpg	869.48	J/mol×K	887.40	Joback Method
cpg	882.13	J/mol×K	919.64	Joback Method
cpg	893.85	J/mol×K	951.89	Joback Method
cpg	904.64	J/mol×K	984.14	Joback Method
cpg	914.55	J/mol×K	1016.39	Joback Method

# Sources

<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=U370692&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370692&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>rinpola:</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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