

# Diethylmalonic acid, pentafluorophenyl undecyl ester

<b>Inchi:</b>	InChI=1S/C24H33F5O4/c1-4-7-8-9-10-11-12-13-14-15-32-22(30)24(5-2,6-3)23(31)33-21
<b>InchiKey:</b>	DZNYJYHKUCLMHAE-UHFFFAOYSA-N
<b>Formula:</b>	C24H33F5O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	480.51

## Physical Properties

Property code	Value	Unit	Source
gf	-1223.59	kJ/mol	Joback Method
hf	-1838.41	kJ/mol	Joback Method
hfus	63.57	kJ/mol	Joback Method
hvap	87.53	kJ/mol	Joback Method
log10ws	-8.76		Crippen Method
logp	7.168		Crippen Method
mcvol	348.990	ml/mol	McGowan Method
pc	875.32	kPa	Joback Method
rinpol	2380.00		NIST Webbook
rinpol	2380.00		NIST Webbook
tb	945.80	K	Joback Method
tc	1160.70	K	Joback Method
tf	598.95	K	Joback Method
vc	1.399	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1151.93	J/mol×K	945.80	Joback Method
cpg	1167.96	J/mol×K	981.62	Joback Method
cpg	1182.60	J/mol×K	1017.43	Joback Method
cpg	1195.91	J/mol×K	1053.25	Joback Method
cpg	1207.91	J/mol×K	1089.07	Joback Method
cpg	1218.67	J/mol×K	1124.88	Joback Method
cpg	1228.20	J/mol×K	1160.70	Joback Method

# Sources

<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=U370218&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370218&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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