

# Phthalic acid, decyl 2,3,6-trifluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C25H29F3O4/c1-2-3-4-5-6-7-8-11-16-31-24(29)18-12-9-10-13-19(18)25(30)32
<b>InchiKey:</b>	JIVGOKSNLUUBTO-UHFFFAOYSA-N
<b>Formula:</b>	C25H29F3O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1c(F)ccc(F)c1F
<b>Mol. weight [g/mol]:</b>	450.49

## Physical Properties

Property code	Value	Unit	Source
gf	-706.35	kJ/mol	Joback Method
hf	-1210.08	kJ/mol	Joback Method
hfus	61.85	kJ/mol	Joback Method
hvap	94.30	kJ/mol	Joback Method
log10ws	-8.83		Crippen Method
logp	6.758		Crippen Method
mvol	335.780	ml/mol	McGowan Method
pc	1068.66	kPa	Joback Method
rinpol	2915.00		NIST Webbook
rinpol	2915.00		NIST Webbook
tb	995.07	K	Joback Method
tc	1218.25	K	Joback Method
tf	620.52	K	Joback Method
vc	1.321	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1094.27	J/molxK	995.07	Joback Method
cpg	1107.71	J/molxK	1032.27	Joback Method
cpg	1119.70	J/molxK	1069.46	Joback Method
cpg	1130.26	J/molxK	1106.66	Joback Method
cpg	1139.44	J/molxK	1143.86	Joback Method
cpg	1147.27	J/molxK	1181.05	Joback Method
cpg	1153.81	J/molxK	1218.25	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=U377793&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377793&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

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