

# Phthalic acid, decyl 2-(2-fluorophenyl)ethyl ester

Inchi:	InChI=1S/C26H33FO4/c1-2-3-4-5-6-7-8-13-19-30-25(28)22-15-10-11-16-23(22)26(29)31
InchiKey:	IEMVKTRGNRWCMQ-UHFFFAOYSA-N
Formula:	C26H33FO4
SMILES:	CCCCCCCCCOC(=O)c1ccccc1C(=O)OCCc1ccccc1F
Mol. weight [g/mol]:	428.54

## Physical Properties

Property code	Value	Unit	Source
gf	-289.05	kJ/mol	Joback Method
hf	-815.56	kJ/mol	Joback Method
hfus	59.05	kJ/mol	Joback Method
hvap	96.84	kJ/mol	Joback Method
log10ws	-8.09		Crippen Method
logp	6.523		Crippen Method
mcvol	346.330	ml/mol	McGowan Method
pc	1085.63	kPa	Joback Method
rinsol	3066.00		NIST Webbook
tb	1009.45	K	Joback Method
tc	1236.29	K	Joback Method
tf	605.57	K	Joback Method
vc	1.341	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1143.46	J/molxK	1009.45	Joback Method
cpg	1157.69	J/molxK	1047.26	Joback Method
cpg	1170.43	J/molxK	1085.06	Joback Method
cpg	1181.74	J/molxK	1122.87	Joback Method
cpg	1191.68	J/molxK	1160.67	Joback Method
cpg	1200.32	J/molxK	1198.48	Joback Method
cpg	1207.70	J/molxK	1236.29	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U378056&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378056&amp;Units=SI</a>
<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>

# 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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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