

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

Inchi:	InChI=1S/C26H33NO6/c1-2-3-4-5-6-7-8-13-19-32-25(28)22-15-10-11-16-23(22)26(29)33
InchiKey:	MTXDHBGRHDPNLO-UHFFFAOYSA-N
Formula:	C26H33NO6
SMILES:	CCCCCCCCCOC(=O)c1ccccc1C(=O)OCCc1ccccc1[N+](=O)[O-]
Mol. weight [g/mol]:	455.54

## Physical Properties

Property code	Value	Unit	Source
gf	-58.69	kJ/mol	Joback Method
hf	-630.21	kJ/mol	Joback Method
hfus	67.34	kJ/mol	Joback Method
hvap	114.25	kJ/mol	Joback Method
log10ws	-8.41		Crippen Method
logp	6.292		Crippen Method
mcvol	361.980	ml/mol	McGowan Method
pc	1127.59	kPa	Joback Method
rinsol	3447.00		NIST Webbook
tb	1162.02	K	Joback Method
tc	1423.06	K	Joback Method
tf	748.59	K	Joback Method
vc	1.405	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1231.72	J/molxK	1162.02	Joback Method
cpg	1241.52	J/molxK	1205.53	Joback Method
cpg	1249.63	J/molxK	1249.03	Joback Method
cpg	1256.15	J/molxK	1292.54	Joback Method
cpg	1261.17	J/molxK	1336.05	Joback Method
cpg	1264.79	J/molxK	1379.56	Joback Method
cpg	1267.10	J/molxK	1423.06	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U378000&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378000&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>h vap:</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>m cvol:</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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