

# Phthalic acid, di(2-propylphenyl) ester

<b>Inchi:</b>	InChI=1S/C26H26O4/c1-3-11-19-13-5-9-17-23(19)29-25(27)21-15-7-8-16-22(21)26(28)3
<b>InchiKey:</b>	DPXRFHZIYSAEEK-UHFFFAOYSA-N
<b>Formula:</b>	C26H26O4
<b>SMILES:</b>	CCCc1ccccc1OC(=O)c1ccccc1C(=O)Oc1ccccc1CCC
<b>Mol. weight [g/mol]:</b>	402.48

## Physical Properties

Property code	Value	Unit	Source
gf	8.54	kJ/mol	Joback Method
hf	-394.39	kJ/mol	Joback Method
hfus	49.63	kJ/mol	Joback Method
hvap	100.60	kJ/mol	Joback Method
log10ws	-8.09		Crippen Method
logp	6.030		Crippen Method
mcvol	320.800	ml/mol	McGowan Method
pc	1398.55	kPa	Joback Method
rinpol	2961.00		NIST Webbook
rinpol	2961.00		NIST Webbook
tb	1041.84	K	Joback Method
tc	1286.86	K	Joback Method
tf	643.92	K	Joback Method
vc	1.216	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1024.63	J/molxK	1041.84	Joback Method
cpg	1036.26	J/molxK	1082.68	Joback Method
cpg	1046.34	J/molxK	1123.51	Joback Method
cpg	1054.95	J/molxK	1164.35	Joback Method
cpg	1062.15	J/molxK	1205.19	Joback Method
cpg	1068.01	J/molxK	1246.02	Joback Method
cpg	1072.61	J/molxK	1286.86	Joback Method
dvisc	0.0001999	Paxs	643.92	Joback Method

dvisc	0.0001214	Paxs	710.24	Joback Method
dvisc	0.0000802	Paxs	776.56	Joback Method
dvisc	0.0000566	Paxs	842.88	Joback Method
dvisc	0.0000420	Paxs	909.20	Joback Method
dvisc	0.0000325	Paxs	975.52	Joback Method
dvisc	0.0000260	Paxs	1041.84	Joback Method

## Sources

<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=U357031&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357031&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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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