

# Isophthalic acid, 4-cyanophenyl pentyl ester

<b>Inchi:</b>	InChI=1S/C20H19NO4/c1-2-3-4-12-24-19(22)16-6-5-7-17(13-16)20(23)25-18-10-8-15(14)
<b>InchiKey:</b>	NLOHWJYPAGLFHN-UHFFFAOYSA-N
<b>Formula:</b>	C20H19NO4
<b>SMILES:</b>	CCCCCOC(=O)c1cccc(C(=O)Oc2ccc(C#N)cc2)c1
<b>Mol. weight [g/mol]:</b>	337.37

## Physical Properties

Property code	Value	Unit	Source
gf	-11.58	kJ/mol	Joback Method
hf	-330.73	kJ/mol	Joback Method
hfus	41.94	kJ/mol	Joback Method
hvap	94.78	kJ/mol	Joback Method
log10ws	-5.83		Crippen Method
logp	4.124		Crippen Method
mvol	261.400	ml/mol	McGowan Method
pc	1681.03	kPa	Joback Method
rinpol	2930.00		NIST Webbook
rinpol	2930.00		NIST Webbook
tb	974.98	K	Joback Method
tc	1211.86	K	Joback Method
tf	602.35	K	Joback Method
vc	1.014	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	792.83	J/mol×K	974.98	Joback Method
cpg	803.17	J/mol×K	1014.46	Joback Method
cpg	812.20	J/mol×K	1053.94	Joback Method
cpg	819.98	J/mol×K	1093.42	Joback Method
cpg	826.52	J/mol×K	1132.90	Joback Method
cpg	831.88	J/mol×K	1172.38	Joback Method
cpg	836.07	J/mol×K	1211.86	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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U344490&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344490&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>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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