

# Isophthalic acid, 4-cyanophenyl heptyl ester

<b>Inchi:</b>	InChI=1S/C22H23NO4/c1-2-3-4-5-6-14-26-21(24)18-8-7-9-19(15-18)22(25)27-20-12-10-
<b>InchiKey:</b>	CEFBIYYQBAUEHP-UHFFFAOYSA-N
<b>Formula:</b>	C22H23NO4
<b>SMILES:</b>	CCCCCCCOC(=O)c1cccc(C(=O)Oc2ccc(C#N)cc2)c1
<b>Mol. weight [g/mol]:</b>	365.42

## Physical Properties

Property code	Value	Unit	Source
gf	5.26	kJ/mol	Joback Method
hf	-372.01	kJ/mol	Joback Method
hfus	47.12	kJ/mol	Joback Method
hvap	99.23	kJ/mol	Joback Method
log10ws	-6.67		Crippen Method
logp	4.905		Crippen Method
mvol	289.580	ml/mol	McGowan Method
pc	1444.64	kPa	Joback Method
rinpol	3157.00		NIST Webbook
rinpol	3157.00		NIST Webbook
tb	1020.74	K	Joback Method
tc	1257.88	K	Joback Method
tf	624.89	K	Joback Method
vc	1.125	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	908.76	J/mol×K	1020.74	Joback Method
cpg	919.22	J/mol×K	1060.26	Joback Method
cpg	928.32	J/mol×K	1099.79	Joback Method
cpg	936.09	J/mol×K	1139.31	Joback Method
cpg	942.60	J/mol×K	1178.83	Joback Method
cpg	947.87	J/mol×K	1218.36	Joback Method
cpg	951.95	J/mol×K	1257.88	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=U344493&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344493&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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