

# Isophthalic acid, monoamide, N,N-diheptyl-, ethyl ester

Inchi:	InChI=1S/C24H39NO3/c1-4-7-9-11-13-18-25(19-14-12-10-8-5-2)23(26)21-16-15-17-22(2
InchiKey:	XKSBGGZZLQNYSN-UHFFFAOYSA-N
Formula:	C24H39NO3
SMILES:	CCCCCCCN(CCCCCC)C(=O)c1cccc(C(=O)OCC)c1
Mol. weight [g/mol]:	389.57

## Physical Properties

Property code	Value	Unit	Source
gf	1.92	kJ/mol	Joback Method
hf	-603.48	kJ/mol	Joback Method
hfus	58.98	kJ/mol	Joback Method
hvap	89.90	kJ/mol	Joback Method
log10ws	-7.30		Crippen Method
logp	6.246		Crippen Method
mvol	344.250	ml/mol	McGowan Method
pc	1041.25	kPa	Joback Method
rinpol	2897.00		NIST Webbook
rinpol	2897.00		NIST Webbook
tb	922.78	K	Joback Method
tc	1130.50	K	Joback Method
tf	553.74	K	Joback Method
vc	1.319	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1132.85	J/molxK	922.78	Joback Method
cpg	1150.50	J/molxK	957.40	Joback Method
cpg	1166.90	J/molxK	992.02	Joback Method
cpg	1182.11	J/molxK	1026.64	Joback Method
cpg	1196.19	J/molxK	1061.26	Joback Method
cpg	1209.20	J/molxK	1095.88	Joback Method
cpg	1221.19	J/molxK	1130.50	Joback Method

# Sources

<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=U345823&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U345823&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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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