

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

<b>Inchi:</b>	InChI=1S/C28H47NO3/c1-4-7-10-13-15-21-29(22-16-14-11-8-5-2)27(30)25-19-18-20-26
<b>InchiKey:</b>	KJRWJJOSYNZHS-UHFFFAOYSA-N
<b>Formula:</b>	C28H47NO3
<b>SMILES:</b>	CCCCCCN(CCCCCC)C(=O)c1cccc(C(=O)OCCCCC)c1
<b>Mol. weight [g/mol]:</b>	445.68

## Physical Properties

Property code	Value	Unit	Source
gf	35.60	kJ/mol	Joback Method
hf	-686.04	kJ/mol	Joback Method
hfus	69.34	kJ/mol	Joback Method
hvap	98.80	kJ/mol	Joback Method
log10ws	-8.97		Crippen Method
logp	7.807		Crippen Method
mvol	400.610	ml/mol	McGowan Method
pc	824.31	kPa	Joback Method
rinpol	3296.00		NIST Webbook
rinpol	3296.00		NIST Webbook
tb	1014.30	K	Joback Method
tc	1245.94	K	Joback Method
tf	598.82	K	Joback Method
vc	1.544	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1384.43	J/molxK	1014.30	Joback Method
cpg	1403.69	J/molxK	1052.91	Joback Method
cpg	1421.41	J/molxK	1091.51	Joback Method
cpg	1437.66	J/molxK	1130.12	Joback Method
cpg	1452.57	J/molxK	1168.73	Joback Method
cpg	1466.22	J/molxK	1207.34	Joback Method
cpg	1478.71	J/molxK	1245.94	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=U345829&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U345829&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>hvp:</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>rinp:</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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