

# Isophthalic acid, monoamide, N,N-diisobutyl-, dodecyl ester

<b>Other names:</b>	Isophthalic acid, monoamide, N-diisobutyl-, dodecyl ester
<b>Inchi:</b>	InChI=1S/C28H47NO3/c1-6-7-8-9-10-11-12-13-14-15-19-32-28(31)26-18-16-17-25(20-2
<b>InchiKey:</b>	POGWAMWGVUNNDD-UHFFFAOYSA-N
<b>Formula:</b>	C28H47NO3
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)c1cccc(C(=O)N(CC(C)C)CC(C)C)c1
<b>Mol. weight [g/mol]:</b>	445.68

## Physical Properties

Property code	Value	Unit	Source
gf	30.72	kJ/mol	Joback Method
hf	-696.60	kJ/mol	Joback Method
hfus	62.29	kJ/mol	Joback Method
hvap	98.03	kJ/mol	Joback Method
log10ws	-8.49		Crippen Method
logp	7.518		Crippen Method
mvol	400.610	ml/mol	McGowan Method
pc	831.94	kPa	Joback Method
rinpol	3254.00		NIST Webbook
rinpol	3254.00		NIST Webbook
tb	1013.42	K	Joback Method
tc	1242.86	K	Joback Method
tf	568.82	K	Joback Method
vc	1.532	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1384.99	J/molxK	1013.42	Joback Method
cpg	1403.94	J/molxK	1051.66	Joback Method
cpg	1421.34	J/molxK	1089.90	Joback Method
cpg	1437.28	J/molxK	1128.14	Joback Method
cpg	1451.85	J/molxK	1166.38	Joback Method
cpg	1465.16	J/molxK	1204.62	Joback Method
cpg	1477.30	J/molxK	1242.86	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U345805&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U345805&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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