

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

<b>Other names:</b>	Isophthalic acid, monoamide, N-diisobutyl-, propyl ester
<b>Inchi:</b>	InChI=1S/C19H29NO3/c1-6-10-23-19(22)17-9-7-8-16(11-17)18(21)20(12-14(2)3)13-15(4)
<b>InchiKey:</b>	GQLKZOGWGVSPBI-UHFFFAOYSA-N
<b>Formula:</b>	C19H29NO3
<b>SMILES:</b>	CCCOC(=O)c1cccc(C(=O)N(CC(C)C)CC(C)C)c1
<b>Mol. weight [g/mol]:</b>	319.44

## Physical Properties

Property code	Value	Unit	Source
gf	-45.06	kJ/mol	Joback Method
hf	-510.84	kJ/mol	Joback Method
hfus	38.98	kJ/mol	Joback Method
hvap	78.00	kJ/mol	Joback Method
log10ws	-4.72		Crippen Method
logp	4.008		Crippen Method
mcvol	273.800	ml/mol	McGowan Method
pc	1475.88	kPa	Joback Method
rinpol	2318.00		NIST Webbook
tb	807.50	K	Joback Method
tc	1010.32	K	Joback Method
tf	467.39	K	Joback Method
vc	1.028	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	832.78	J/mol×K	807.50	Joback Method
cpg	849.50	J/mol×K	841.30	Joback Method
cpg	865.10	J/mol×K	875.11	Joback Method
cpg	879.61	J/mol×K	908.91	Joback Method
cpg	893.08	J/mol×K	942.71	Joback Method
cpg	905.54	J/mol×K	976.52	Joback Method
cpg	917.05	J/mol×K	1010.32	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=U345795&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U345795&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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