

# Isophthalic acid, 2-formylphenyl octyl ester

<b>Inchi:</b>	InChI=1S/C23H26O5/c1-2-3-4-5-6-9-15-27-22(25)18-12-10-13-19(16-18)23(26)28-21-14
<b>InchiKey:</b>	QMUNGAAGMVFZGO-UHFFFAOYSA-N
<b>Formula:</b>	C23H26O5
<b>SMILES:</b>	CCCCCCCCOC(=O)c1cccc(C(=O)O)c2ccccc2C(=O)c1
<b>Mol. weight [g/mol]:</b>	382.45

## Physical Properties

Property code	Value	Unit	Source
gf	-219.02	kJ/mol	Joback Method
hf	-643.11	kJ/mol	Joback Method
hfus	50.49	kJ/mol	Joback Method
hvap	97.70	kJ/mol	Joback Method
log10ws	-6.97		Crippen Method
logp	5.236		Crippen Method
mvol	303.860	ml/mol	McGowan Method
pc	1447.94	kPa	Joback Method
rinpol	3169.00		NIST Webbook
rinpol	3169.00		NIST Webbook
tb	990.20	K	Joback Method
tc	1218.74	K	Joback Method
tf	613.17	K	Joback Method
vc	1.173	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	965.35	J/molxK	990.20	Joback Method
cpg	977.48	J/molxK	1028.29	Joback Method
cpg	988.22	J/molxK	1066.38	Joback Method
cpg	997.63	J/molxK	1104.47	Joback Method
cpg	1005.74	J/molxK	1142.56	Joback Method
cpg	1012.60	J/molxK	1180.65	Joback Method
cpg	1018.26	J/molxK	1218.74	Joback Method
dvisc	0.0003272	Paxs	613.17	Joback Method

dvisc	0.0001963	Paxs	676.01	Joback Method
dvisc	0.0001285	Paxs	738.85	Joback Method
dvisc	0.0000899	Paxs	801.68	Joback Method
dvisc	0.0000662	Paxs	864.52	Joback Method
dvisc	0.0000508	Paxs	927.36	Joback Method
dvisc	0.0000404	Paxs	990.20	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=U344616&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344616&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>rinpol:</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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