

# Isophthalic acid, 2,6-dimethoxyphenyl heptyl ester

Inchi:	InChI=1S/C23H28O6/c1-4-5-6-7-8-15-28-22(24)17-11-9-12-18(16-17)23(25)29-21-19(26)
InchiKey:	HTCKUBUMIUNVMX-UHFFFAOYSA-N
Formula:	C23H28O6
SMILES:	CCCCCCCOC(=O)c1cccc(C(=O)Oc2c(OC)ccc2OC)c1
Mol. weight [g/mol]:	400.46

## Physical Properties

Property code	Value	Unit	Source
gf	-339.13	kJ/mol	Joback Method
hf	-833.44	kJ/mol	Joback Method
hfus	50.19	kJ/mol	Joback Method
hvap	96.46	kJ/mol	Joback Method
log10ws	-6.55		Crippen Method
logp	5.050		Crippen Method
mcvol	314.030	ml/mol	McGowan Method
pc	1321.35	kPa	Joback Method
rinsol	3164.00		NIST Webbook
tb	991.36	K	Joback Method
tc	1218.17	K	Joback Method
tf	628.15	K	Joback Method
vc	1.192	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1008.86	J/molxK	991.36	Joback Method
cpg	1052.39	J/molxK	1180.36	Joback Method
cpg	1047.12	J/molxK	1142.56	Joback Method
cpg	1040.14	J/molxK	1104.76	Joback Method
cpg	1031.43	J/molxK	1066.96	Joback Method
cpg	1021.01	J/molxK	1029.16	Joback Method
cpg	1055.93	J/molxK	1218.17	Joback Method
dvisc	0.0000213	Paxs	991.36	Joback Method
dvisc	0.0000265	Paxs	930.83	Joback Method

dvisc	0.0000341	Paxs	870.29	Joback Method
dvisc	0.0000455	Paxs	809.76	Joback Method
dvisc	0.0000638	Paxs	749.22	Joback Method
dvisc	0.0000947	Paxs	688.69	Joback Method
dvisc	0.0001517	Paxs	628.15	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U344537&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344537&amp;Units=SI</a>
<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>

## 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>mvol:</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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