

# Isophthalic acid, heptyl 3-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C22H26O4/c1-3-4-5-6-7-14-25-21(23)18-11-9-12-19(16-18)22(24)26-20-13-8-
<b>InchiKey:</b>	AXRJMLIKGOEVHY-UHFFFAOYSA-N
<b>Formula:</b>	C22H26O4
<b>SMILES:</b>	CCCCCCCOC(=O)c1cccc(C(=O)Oc2cccc(C)c2)c1
<b>Mol. weight [g/mol]:</b>	354.44

## Physical Properties

Property code	Value	Unit	Source
gf	-127.92	kJ/mol	Joback Method
hf	-536.89	kJ/mol	Joback Method
hfus	45.61	kJ/mol	Joback Method
hvap	88.75	kJ/mol	Joback Method
log10ws	-6.79		Crippen Method
logp	5.341		Crippen Method
mcvol	288.200	ml/mol	McGowan Method
pc	1472.49	kPa	Joback Method
rinpol	2886.00		NIST Webbook
rinpol	2886.00		NIST Webbook
tb	918.66	K	Joback Method
tc	1141.14	K	Joback Method
tf	559.90	K	Joback Method
vc	1.099	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	896.78	J/molxK	918.66	Joback Method
cpg	911.00	J/molxK	955.74	Joback Method
cpg	923.89	J/molxK	992.82	Joback Method
cpg	935.48	J/molxK	1029.90	Joback Method
cpg	945.81	J/molxK	1066.98	Joback Method
cpg	954.92	J/molxK	1104.06	Joback Method
cpg	962.84	J/molxK	1141.14	Joback Method
dvisc	0.0003717	Paxs	559.90	Joback Method

dvisc	0.0002185	Paxs	619.69	Joback Method
dvisc	0.0001410	Paxs	679.49	Joback Method
dvisc	0.0000977	Paxs	739.28	Joback Method
dvisc	0.0000715	Paxs	799.07	Joback Method
dvisc	0.0000547	Paxs	858.87	Joback Method
dvisc	0.0000433	Paxs	918.66	Joback Method

## Sources

<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=U344520&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344520&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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