

# Isophthalic acid, 2-biphenyl hexyl ester

<b>Inchi:</b>	InChI=1S/C26H26O4/c1-2-3-4-10-18-29-25(27)21-14-11-15-22(19-21)26(28)30-24-17-9-
<b>InchiKey:</b>	WGKHSRDIIIQRBS-UHFFFAOYSA-N
<b>Formula:</b>	C26H26O4
<b>SMILES:</b>	CCCCCOC(=O)c1cccc(C(=O)Oc2ccccc2-c2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	402.48

## Physical Properties

Property code	Value	Unit	Source
gf	18.17	kJ/mol	Joback Method
hf	-382.92	kJ/mol	Joback Method
hfus	50.01	kJ/mol	Joback Method
hvap	99.93	kJ/mol	Joback Method
log10ws	-8.50		Crippen Method
logp	6.310		Crippen Method
mvol	320.800	ml/mol	McGowan Method
pc	1414.37	kPa	Joback Method
rinpol	3220.00		NIST Webbook
rinpol	3220.00		NIST Webbook
tb	1036.86	K	Joback Method
tc	1281.06	K	Joback Method
tf	631.40	K	Joback Method
vc	1.216	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1026.16	J/molxK	1036.86	Joback Method
cpg	1038.00	J/molxK	1077.56	Joback Method
cpg	1048.33	J/molxK	1118.26	Joback Method
cpg	1057.25	J/molxK	1158.96	Joback Method
cpg	1064.82	J/molxK	1199.66	Joback Method
cpg	1071.13	J/molxK	1240.36	Joback Method
cpg	1076.26	J/molxK	1281.06	Joback Method
dvisc	0.0002195	Paxs	631.40	Joback Method

dvisc	0.0001286	Paxs	698.98	Joback Method
dvisc	0.0000827	Paxs	766.55	Joback Method
dvisc	0.0000572	Paxs	834.13	Joback Method
dvisc	0.0000418	Paxs	901.71	Joback Method
dvisc	0.0000319	Paxs	969.28	Joback Method
dvisc	0.0000252	Paxs	1036.86	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=U344561&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344561&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

Latest version available from:

<https://www.chemeo.com/cid/86-361-6/Isophthalic-acid-2-biphenyl-hexyl-ester.pdf>

Generated by Cheméo on 2024-04-26 03:04:48.100736168 +0000 UTC m=+16389937.021313483.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.