

# Isophthalic acid, 4-isopropylphenyl nonyl ester

Inchi:	InChI=1S/C26H34O4/c1-4-5-6-7-8-9-10-18-29-25(27)22-12-11-13-23(19-22)26(28)30-24
InchiKey:	MCOKYPUIUFICII-UHFFFAOYSA-N
Formula:	C26H34O4
SMILES:	CCCCCCCCCOC(=O)c1cccc(C(=O)Oc2ccc(C(C)C)cc2)c1
Mol. weight [g/mol]:	410.55

## Physical Properties

Property code	Value	Unit	Source
gf	-96.68	kJ/mol	Joback Method
hf	-624.73	kJ/mol	Joback Method
hfus	52.45	kJ/mol	Joback Method
hvap	97.27	kJ/mol	Joback Method
log10ws	-8.33		Crippen Method
logp	6.937		Crippen Method
mvol	344.560	ml/mol	McGowan Method
pc	1124.57	kPa	Joback Method
rinpol	3312.00		NIST Webbook
rinpol	3312.00		NIST Webbook
tb	1009.74	K	Joback Method
tc	1238.66	K	Joback Method
tf	589.98	K	Joback Method
vc	1.317	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1137.07	J/molxK	1009.74	Joback Method
cpg	1151.47	J/molxK	1047.89	Joback Method
cpg	1164.36	J/molxK	1086.05	Joback Method
cpg	1175.77	J/molxK	1124.20	Joback Method
cpg	1185.76	J/molxK	1162.35	Joback Method
cpg	1194.41	J/molxK	1200.50	Joback Method
cpg	1201.75	J/molxK	1238.66	Joback Method
dvisc	0.0002590	Paxs	589.98	Joback Method

dvisc	0.0001382	Paxs	659.94	Joback Method
dvisc	0.0000831	Paxs	729.90	Joback Method
dvisc	0.0000547	Paxs	799.86	Joback Method
dvisc	0.0000385	Paxs	869.82	Joback Method
dvisc	0.0000285	Paxs	939.78	Joback Method
dvisc	0.0000220	Paxs	1009.74	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=U344460&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344460&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/95-165-4/Isophthalic-acid-4-isopropylphenyl-nonyl-ester.pdf>

Generated by Cheméo on 2024-04-25 07:45:30.741636745 +0000 UTC m=+16320379.662214073.

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