

# Phthalic acid, 2,4-dimethylpent-3-yl nonyl ester

Inchi:	InChI=1S/C24H38O4/c1-6-7-8-9-10-11-14-17-27-23(25)20-15-12-13-16-21(20)24(26)28-
InchiKey:	YPRVDQATFQUJQG-UHFFFAOYSA-N
Formula:	C24H38O4
SMILES:	CCCCCCCCCOC(=O)c1cccc1C(=O)OC(C(C)C)C(C)C
Mol. weight [g/mol]:	390.56

## Physical Properties

Property code	Value	Unit	Source
gf	-221.18	kJ/mol	Joback Method
hf	-819.07	kJ/mol	Joback Method
hfus	46.57	kJ/mol	Joback Method
hvap	89.10	kJ/mol	Joback Method
log10ws	-7.45		Crippen Method
logp	6.431		Crippen Method
mcvol	340.140	ml/mol	McGowan Method
pc	1047.33	kPa	Joback Method
rinpol	2595.00		NIST Webbook
tb	931.44	K	Joback Method
tc	1142.65	K	Joback Method
tf	498.50	K	Joback Method
vc	1.302	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1120.72	J/molxK	931.44	Joback Method
cpg	1137.76	J/molxK	966.64	Joback Method
cpg	1153.38	J/molxK	1001.84	Joback Method
cpg	1167.62	J/molxK	1037.04	Joback Method
cpg	1180.51	J/molxK	1072.25	Joback Method
cpg	1192.10	J/molxK	1107.45	Joback Method
cpg	1202.41	J/molxK	1142.65	Joback Method
dvisc	0.0005581	Paxs	498.50	Joback Method
dvisc	0.0002354	Paxs	570.66	Joback Method

dvisc	0.0001206	Paxs	642.81	Joback Method
dvisc	0.0000707	Paxs	714.97	Joback Method
dvisc	0.0000457	Paxs	787.13	Joback Method
dvisc	0.0000318	Paxs	859.28	Joback Method
dvisc	0.0000234	Paxs	931.44	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=U356848&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356848&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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