

# Terephthalic acid, but-3-enyl nonyl ester

<b>Inchi:</b>	InChI=1S/C21H30O4/c1-3-5-7-8-9-10-11-17-25-21(23)19-14-12-18(13-15-19)20(22)24-1
<b>InchiKey:</b>	AAVYEJSXUZFIJN-UHFFFAOYSA-N
<b>Formula:</b>	C21H30O4
<b>SMILES:</b>	C=CCCOC(=O)c1ccc(C(=O)OCCCCCCCCC)cc1
<b>Mol. weight [g/mol]:</b>	346.46

## Physical Properties

Property code	Value	Unit	Source
gf	-151.28	kJ/mol	Joback Method
hf	-615.88	kJ/mol	Joback Method
hfus	48.09	kJ/mol	Joback Method
hvap	82.92	kJ/mol	Joback Method
log10ws	-6.41		Crippen Method
logp	5.327		Crippen Method
mvol	293.570	ml/mol	McGowan Method
pc	1290.21	kPa	Joback Method
rinpol	2649.00		NIST Webbook
rinpol	2649.00		NIST Webbook
tb	860.80	K	Joback Method
tc	1063.09	K	Joback Method
tf	507.93	K	Joback Method
vc	1.133	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	909.38	J/molxK	860.80	Joback Method
cpg	977.66	J/molxK	1029.37	Joback Method
cpg	966.16	J/molxK	995.66	Joback Method
cpg	953.61	J/molxK	961.94	Joback Method
cpg	939.98	J/molxK	928.23	Joback Method
cpg	925.25	J/molxK	894.51	Joback Method
cpg	988.15	J/molxK	1063.09	Joback Method
dvisc	0.0000510	Paxs	860.80	Joback Method

dvisc	0.0000656	Paxs	801.99	Joback Method
dvisc	0.0000876	Paxs	743.18	Joback Method
dvisc	0.0001231	Paxs	684.37	Joback Method
dvisc	0.0001844	Paxs	625.55	Joback Method
dvisc	0.0003004	Paxs	566.74	Joback Method
dvisc	0.0005479	Paxs	507.93	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=U356339&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356339&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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