

# Phthalic acid, butyl 2,4,4-trimethylpentyl ester

<b>Inchi:</b>	InChI=1S/C20H30O4/c1-6-7-12-23-18(21)16-10-8-9-11-17(16)19(22)24-14-15(2)13-20(3)
<b>InchiKey:</b>	UIIZGPAAOJTMEO-UHFFFAOYSA-N
<b>Formula:</b>	C20H30O4
<b>SMILES:</b>	CCCCOC(=O)c1ccccc1C(=O)OCC(C)CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	334.45

## Physical Properties

Property code	Value	Unit	Source
gf	-247.14	kJ/mol	Joback Method
hf	-734.70	kJ/mol	Joback Method
hfus	35.84	kJ/mol	Joback Method
hvap	79.68	kJ/mol	Joback Method
log10ws	-5.66		Crippen Method
logp	4.873		Crippen Method
mcvol	283.780	ml/mol	McGowan Method
pc	1368.70	kPa	Joback Method
rinpol	2180.00		NIST Webbook
tb	837.57	K	Joback Method
tc	1044.90	K	Joback Method
tf	485.84	K	Joback Method
vc	1.079	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	879.27	J/molxK	837.57	Joback Method
cpg	895.72	J/molxK	872.13	Joback Method
cpg	910.98	J/molxK	906.68	Joback Method
cpg	925.11	J/molxK	941.24	Joback Method
cpg	938.13	J/molxK	975.79	Joback Method
cpg	950.10	J/molxK	1010.35	Joback Method
cpg	961.05	J/molxK	1044.90	Joback Method
dvisc	0.0006273	Paxs	485.84	Joback Method
dvisc	0.0003093	Paxs	544.46	Joback Method

dvisc	0.0001750	Paxs	603.08	Joback Method
dvisc	0.0001095	Paxs	661.70	Joback Method
dvisc	0.0000740	Paxs	720.33	Joback Method
dvisc	0.0000530	Paxs	778.95	Joback Method
dvisc	0.0000398	Paxs	837.57	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=U377770&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377770&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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