

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

Inchi:	InChI=1S/C33H56O4/c1-6-7-8-9-10-11-12-13-14-15-16-17-18-19-22-25-36-31(34)29-23-
InchiKey:	BMJSTJWHNVVDJKL-UHFFFAOYSA-N
Formula:	C33H56O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)c1cccc1C(=O)OCC(C)CC(C)(C)C
Mol. weight [g/mol]:	516.80

## Physical Properties

Property code	Value	Unit	Source
gf	-137.68	kJ/mol	Joback Method
hf	-1003.02	kJ/mol	Joback Method
hfus	69.52	kJ/mol	Joback Method
hvap	108.62	kJ/mol	Joback Method
log10ws	-11.10		Crippen Method
logp	9.944		Crippen Method
mcvol	466.950	ml/mol	McGowan Method
pc	640.60	kPa	Joback Method
rinpol	3490.00		NIST Webbook
tb	1135.01	K	Joback Method
tc	1415.49	K	Joback Method
tf	632.35	K	Joback Method
vc	1.806	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1690.20	J/molxK	1135.01	Joback Method
cpg	1772.48	J/molxK	1368.74	Joback Method
cpg	1759.56	J/molxK	1322.00	Joback Method
cpg	1745.08	J/molxK	1275.25	Joback Method
cpg	1728.82	J/molxK	1228.50	Joback Method
cpg	1710.60	J/molxK	1181.76	Joback Method
cpg	1784.03	J/molxK	1415.49	Joback Method
dvisc	0.0000050	Paxs	1135.01	Joback Method
dvisc	0.0000068	Paxs	1051.23	Joback Method

dvisc	0.0000098	Paxs	967.46	Joback Method
dvisc	0.0000152	Paxs	883.68	Joback Method
dvisc	0.0000256	Paxs	799.90	Joback Method
dvisc	0.0000488	Paxs	716.13	Joback Method
dvisc	0.0001104	Paxs	632.35	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377783&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377783&amp;Units=SI</a>
<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>

## 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/36-270-2/Phthalic-acid-heptadecyl-2-4-4-trimethylpentyl-ester.pdf>

Generated by Cheméo on 2024-04-28 07:26:32.875929227 +0000 UTC m=+16578441.796506538.

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