

# Phthalic acid, 3-methylbut-3-enyl tridecyl ester

**Inchi:** InChI=1S/C26H40O4/c1-4-5-6-7-8-9-10-11-12-13-16-20-29-25(27)23-17-14-15-18-24(23)  
**InchiKey:** ZSPYOCZBRXMJER-UHFFFAOYSA-N  
**Formula:** C26H40O4  
**SMILES:** C=C(C)CCOC(=O)c1cccc1C(=O)OCCCCCCCCCCCCC  
**Mol. weight [g/mol]:** 416.59

## Physical Properties

Property code	Value	Unit	Source
gf	-117.73	kJ/mol	Joback Method
hf	-728.87	kJ/mol	Joback Method
hfus	59.73	kJ/mol	Joback Method
hvap	94.13	kJ/mol	Joback Method
log10ws	-8.51		Crippen Method
logp	7.277		Crippen Method
mcvol	364.020	ml/mol	McGowan Method
pc	941.52	kPa	Joback Method
rinpol	2939.00		NIST Webbook
tb	975.08	K	Joback Method
tc	1193.80	K	Joback Method
tf	550.32	K	Joback Method
vc	1.413	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1213.51	J/molxK	975.08	Joback Method
cpg	1230.65	J/molxK	1011.53	Joback Method
cpg	1246.35	J/molxK	1047.99	Joback Method
cpg	1260.66	J/molxK	1084.44	Joback Method
cpg	1273.63	J/molxK	1120.89	Joback Method
cpg	1285.33	J/molxK	1157.35	Joback Method
cpg	1295.81	J/molxK	1193.80	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=U357111&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357111&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>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>hvac:</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>mccol:</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/43-653-9/Phthalic-acid-3-methylbut-3-enyl-tridecyl-ester.pdf>

Generated by Cheméo on 2024-04-30 07:37:45.668201631 +0000 UTC m=+16751914.588778943.

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