

# Phthalic acid, 2,2,3,3,4,4,4-heptafluorobutyl tetradecyl ester

Inchi:	InChI=1S/C26H35F7O4/c1-2-3-4-5-6-7-8-9-10-11-12-15-18-36-22(34)20-16-13-14-17-21
InchiKey:	JKEKMZDDZOCJET-UHFFFAOYSA-N
Formula:	C26H35F7O4
SMILES:	CCCCCCCCCCCCCOC(=O)c1cccc1C(=O)OCC(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	544.54

## Physical Properties

Property code	Value	Unit	Source
gf	-1552.17	kJ/mol	Joback Method
hf	-2243.53	kJ/mol	Joback Method
hfus	61.64	kJ/mol	Joback Method
hvap	85.11	kJ/mol	Joback Method
log10ws	-9.94		Crippen Method
logp	8.534		Crippen Method
mvol	380.710	ml/mol	McGowan Method
pc	787.27	kPa	Joback Method
rinpol	2802.00		NIST Webbook
tb	963.72	K	Joback Method
tc	1186.00	K	Joback Method
tf	577.43	K	Joback Method
vc	1.524	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1291.49	J/molxK	963.72	Joback Method
cpg	1308.40	J/molxK	1000.77	Joback Method
cpg	1324.08	J/molxK	1037.81	Joback Method
cpg	1338.67	J/molxK	1074.86	Joback Method
cpg	1352.29	J/molxK	1111.91	Joback Method
cpg	1365.08	J/molxK	1148.95	Joback Method
cpg	1377.16	J/molxK	1186.00	Joback Method

# Sources

<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=U415552&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415552&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>

# 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/72-228-9/Phthalic-acid-2-2-3-3-4-4-4-4-heptafluorobutyl-tetradecyl-ester.pdf>

Generated by Cheméo on 2024-05-02 17:32:01.775741359 +0000 UTC m=+16960370.696318675.

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