

# Diglycolic acid, pentadecyl pentafluorobenzyl ester

Inchi:	InChI=1S/C26H37F5O5/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-35-20(32)17-34-18-21(33)
InchiKey:	IFVWJMFHJMDKKG-UHFFFAOYSA-N
Formula:	C26H37F5O5
SMILES:	CCCCCCCCCCCCCOC(=O)COCC(=O)OCc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	524.56

## Physical Properties

Property code	Value	Unit	Source
gf	-1314.59	kJ/mol	Joback Method
hf	-2003.16	kJ/mol	Joback Method
hfus	77.35	kJ/mol	Joback Method
hvap	95.69	kJ/mol	Joback Method
log10ws	-8.77		Crippen Method
logp	7.076		Crippen Method
mcvol	383.040	ml/mol	McGowan Method
pc	768.19	kPa	Joback Method
rinpola	3638.00		NIST Webbook
rinpola	3638.00		NIST Webbook
tb	1017.21	K	Joback Method
tc	1267.93	K	Joback Method
tf	641.30	K	Joback Method
vc	1.540	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1303.38	J/molxK	1017.21	Joback Method
cpg	1320.02	J/molxK	1059.00	Joback Method
cpg	1334.37	J/molxK	1100.78	Joback Method
cpg	1346.44	J/molxK	1142.57	Joback Method
cpg	1356.27	J/molxK	1184.36	Joback Method
cpg	1363.86	J/molxK	1226.14	Joback Method
cpg	1369.24	J/molxK	1267.93	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=U382084&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382084&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>rinpola:</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.cheméo.com/cid/123-451-4/Diglycolic-acid-pentadecyl-pentafluorobenzyl-ester.pdf>

Generated by Cheméo on 2024-04-29 22:25:13.82618255 +0000 UTC m=+16718762.746759866.

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