

# Terephthalic acid, di(1-(pentafluorophenyl)ethyl) ester

Inchi:	InChI=1S/C24H12F10O4/c1-7(11-13(25)17(29)21(33)18(30)14(11)26)37-23(35)9-3-5-10
InchiKey:	VTXNWHSDQPMDLB-UHFFFAOYSA-N
Formula:	C24H12F10O4
SMILES:	CC(OC(=O)c1ccc(C(=O)OC(C)c2c(F)c(F)c(F)c(F)c2F)cc1)c1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	554.33

## Physical Properties

Property code	Value	Unit	Source
gf	-2038.32	kJ/mol	Joback Method
hf	-2416.53	kJ/mol	Joback Method
hfus	65.09	kJ/mol	Joback Method
hvap	92.49	kJ/mol	Joback Method
log10ws	-10.26		Crippen Method
logp	6.914		Crippen Method
mcvol	310.320	ml/mol	McGowan Method
pc	1084.92	kPa	Joback Method
rinpol	2554.00		NIST Webbook
rinpol	2554.00		NIST Webbook
tb	1027.74	K	Joback Method
tc	1259.83	K	Joback Method
tf	697.44	K	Joback Method
vc	1.272	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	961.97	J/molxK	1027.74	Joback Method
cpg	969.89	J/molxK	1066.42	Joback Method
cpg	976.20	J/molxK	1105.10	Joback Method
cpg	980.92	J/molxK	1143.79	Joback Method
cpg	984.03	J/molxK	1182.47	Joback Method
cpg	985.55	J/molxK	1221.15	Joback Method
cpg	985.48	J/molxK	1259.83	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=U416062&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416062&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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/72-405-2/Terephthalic-acid-di-1-pentafluorophenyl-ethyl-ester.pdf>

Generated by Cheméo on 2024-05-06 07:41:58.145717248 +0000 UTC m=+17270567.066294566.

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