

# Terephthalic acid, di(2-fluorophenethyl) ester

**Inchi:** InChI=1S/C24H20F2O4/c25-21-7-3-1-5-17(21)13-15-29-23(27)19-9-11-20(12-10-19)24(27)1-2  
**InchiKey:** IZQQJBFIKHVFAL-UHFFFAOYSA-N  
**Formula:** C24H20F2O4  
**SMILES:** O=C(OCCc1ccccc1F)c1ccc(C(=O)OCCc2ccccc2F)cc1  
**Mol. weight [g/mol]:** 410.41

## Physical Properties

Property code	Value	Unit	Source
gf	-397.92	kJ/mol	Joback Method
hf	-745.33	kJ/mol	Joback Method
hfus	50.61	kJ/mol	Joback Method
hvap	94.51	kJ/mol	Joback Method
log10ws	-6.69		Crippen Method
logp	4.764		Crippen Method
mvol	296.160	ml/mol	McGowan Method
pc	1511.67	kPa	Joback Method
rinpol	2381.00		NIST Webbook
rinpol	2381.00		NIST Webbook
tb	994.62	K	Joback Method
tc	1230.14	K	Joback Method
tf	622.56	K	Joback Method
vc	1.139	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	920.40	J/mol×K	994.62	Joback Method
cpg	931.41	J/mol×K	1033.87	Joback Method
cpg	941.02	J/mol×K	1073.13	Joback Method
cpg	949.30	J/mol×K	1112.38	Joback Method
cpg	956.30	J/mol×K	1151.63	Joback Method
cpg	962.08	J/mol×K	1190.88	Joback Method
cpg	966.69	J/mol×K	1230.14	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=U416139&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416139&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>h vap:</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>r in pol:</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

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