

# Terephthalic acid, decyl 2-fluoro-6-(trifluoromethyl)benzyl ester

Inchi:	InChI=1S/C26H30F4O4/c1-2-3-4-5-6-7-8-9-17-33-24(31)19-13-15-20(16-14-19)25(32)34
InchiKey:	ZOWGNBIAEBSDOG-UHFFFAOYSA-N
Formula:	C26H30F4O4
SMILES:	CCCCCCCCCOC(=O)c1ccc(C(=O)OCc2c(F)cccc2C(F)(F)F)cc1
Mol. weight [g/mol]:	482.51

## Physical Properties

Property code	Value	Unit	Source
gf	-880.27	kJ/mol	Joback Method
hf	-1424.11	kJ/mol	Joback Method
hfus	60.49	kJ/mol	Joback Method
hvap	93.76	kJ/mol	Joback Method
log10ws	-9.27		Crippen Method
logp	7.499		Crippen Method
mcvol	351.640	ml/mol	McGowan Method
pc	997.65	kPa	Joback Method
rinpol	3408.00		NIST Webbook
tb	1009.01	K	Joback Method
tc	1235.47	K	Joback Method
tf	622.28	K	Joback Method
vc	1.385	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1162.80	J/molxK	1009.01	Joback Method
cpg	1176.54	J/molxK	1046.75	Joback Method
cpg	1188.94	J/molxK	1084.50	Joback Method
cpg	1200.07	J/molxK	1122.24	Joback Method
cpg	1210.00	J/molxK	1159.98	Joback Method
cpg	1218.82	J/molxK	1197.73	Joback Method
cpg	1226.61	J/molxK	1235.47	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=U382951&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382951&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>
<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

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