

# 2,5-Di(trifluoromethyl)benzoic acid, nonadecyl ester

Inchi:	InChI=1S/C28H42F6O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-21-36-26(35)24
InchiKey:	IKPCTGOLZBVXMQ-UHFFFAOYSA-N
Formula:	C28H42F6O2
SMILES:	CCCCCCCCCCCCCCCCCOC(=O)c1cc(C(F)(F)F)ccc1C(F)(F)F
Mol. weight [g/mol]:	524.62

## Physical Properties

Property code	Value	Unit	Source
gf	-1119.07	kJ/mol	Joback Method
hf	-1846.62	kJ/mol	Joback Method
hfus	67.98	kJ/mol	Joback Method
hvap	83.18	kJ/mol	Joback Method
log10ws	-11.46		Crippen Method
logp	10.533		Crippen Method
mvol	399.680	ml/mol	McGowan Method
pc	695.81	kPa	Joback Method
rinpol	2703.00		NIST Webbook
rinpol	2703.00		NIST Webbook
tb	942.13	K	Joback Method
tc	1161.24	K	Joback Method
tf	537.32	K	Joback Method
vc	1.605	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1360.78	J/molxK	942.13	Joback Method
cpg	1380.97	J/molxK	978.65	Joback Method
cpg	1399.82	J/molxK	1015.17	Joback Method
cpg	1417.46	J/molxK	1051.68	Joback Method
cpg	1434.01	J/molxK	1088.20	Joback Method
cpg	1449.57	J/molxK	1124.72	Joback Method
cpg	1464.28	J/molxK	1161.24	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=U338952&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338952&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>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

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