

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

Inchi:	InChI=1S/C26H38F6O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-19-34-24(33)22-20-21
InchiKey:	PPYOIDNXHIXTDW-UHFFFAOYSA-N
Formula:	C26H38F6O2
SMILES:	CCCCCCCCCCCCCCCCOC(=O)c1cc(C(F)(F)F)ccc1C(F)(F)F
Mol. weight [g/mol]:	496.57

## Physical Properties

Property code	Value	Unit	Source
gf	-1135.91	kJ/mol	Joback Method
hf	-1805.34	kJ/mol	Joback Method
hfus	62.80	kJ/mol	Joback Method
hvap	78.73	kJ/mol	Joback Method
log10ws	-10.62		Crippen Method
logp	9.752		Crippen Method
mcvol	371.500	ml/mol	McGowan Method
pc	772.03	kPa	Joback Method
rinpol	2512.00		NIST Webbook
tb	896.37	K	Joback Method
tc	1099.18	K	Joback Method
tf	514.78	K	Joback Method
vc	1.494	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1235.18	J/molxK	896.37	Joback Method
cpg	1253.92	J/molxK	930.17	Joback Method
cpg	1271.47	J/molxK	963.97	Joback Method
cpg	1287.92	J/molxK	997.78	Joback Method
cpg	1303.37	J/molxK	1031.58	Joback Method
cpg	1317.90	J/molxK	1065.38	Joback Method
cpg	1331.60	J/molxK	1099.18	Joback Method

# Sources

<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=U338950&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338950&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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/72-199-2/2-5-Di-trifluoromethyl-benzoic-acid-heptadecyl-ester.pdf>

Generated by Cheméo on 2024-04-27 06:03:42.437941223 +0000 UTC m=+16487071.358518544.

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