

3-Methoxy-2,4,5-trifluorobenzoic acid, heptadecyl ester

Inchi:	InChI=1S/C25H39F3O3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-31-25(29)20-19-2
InchiKey:	KZZLAHHYIWSXAB-UHFFFAOYSA-N
Formula:	C25H39F3O3
SMILES:	CCCCCCCCCCCCCCCCOC(=O)c1cc(F)c(F)c(OC)c1F
Mol. weight [g/mol]:	444.57

Physical Properties

Property code	Value	Unit	Source
gf	-689.84	kJ/mol	Joback Method
hf	-1334.03	kJ/mol	Joback Method
hfus	66.21	kJ/mol	Joback Method
hvap	85.28	kJ/mol	Joback Method
log10ws	-9.53		Crippen Method
logp	8.141		Crippen Method
mvol	357.970	ml/mol	McGowan Method
pc	838.70	kPa	Joback Method
rinpol	2847.00		NIST Webbook
rinpol	2847.00		NIST Webbook
tb	914.52	K	Joback Method
tc	1121.10	K	Joback Method
tf	544.17	K	Joback Method
vc	1.423	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1182.17	J/molxK	914.52	Joback Method
cpg	1200.72	J/molxK	948.95	Joback Method
cpg	1217.86	J/molxK	983.38	Joback Method
cpg	1233.63	J/molxK	1017.81	Joback Method
cpg	1248.04	J/molxK	1052.24	Joback Method
cpg	1261.13	J/molxK	1086.67	Joback Method
cpg	1272.91	J/molxK	1121.10	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U338774&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/77-339-1/3-Methoxy-2-4-5-trifluorobenzoic-acid-heptadecyl-ester.pdf>

Generated by Cheméo on 2024-04-24 17:02:07.48455229 +0000 UTC m=+16267376.405129606.

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