

3-Chloro2-fluorobenzoic acid, 6-dodecyl ester

Inchi:	InChI=1S/C19H28ClFO2/c1-3-5-7-9-12-15(11-8-6-4-2)23-19(22)16-13-10-14-17(20)18(1
InchiKey:	OIDHGMMKHLWULB-UHFFFAOYSA-N
Formula:	C19H28ClFO2
SMILES:	CCCCCCC(CCCCC)OC(=O)c1cccc(Cl)c1F
Mol. weight [g/mol]:	342.88

Physical Properties

Property code	Value	Unit	Source
gf	-240.85	kJ/mol	Joback Method
hf	-683.83	kJ/mol	Joback Method
hfus	44.77	kJ/mol	Joback Method
hvap	73.82	kJ/mol	Joback Method
log10ws	-7.45		Crippen Method
logp	6.555		Crippen Method
mvol	276.260	ml/mol	McGowan Method
pc	1304.23	kPa	Joback Method
rinpol	2228.00		NIST Webbook
rinpol	2228.00		NIST Webbook
tb	783.31	K	Joback Method
tc	977.36	K	Joback Method
tf	443.02	K	Joback Method
vc	1.077	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	806.36	J/molxK	783.31	Joback Method
cpg	822.78	J/molxK	815.65	Joback Method
cpg	838.21	J/molxK	847.99	Joback Method
cpg	852.68	J/molxK	880.33	Joback Method
cpg	866.22	J/molxK	912.68	Joback Method
cpg	878.86	J/molxK	945.02	Joback Method
cpg	890.62	J/molxK	977.36	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U338641&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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.cheméo.com/cid/121-735-1/3-Chloro2-fluorobenzoic-acid-6-dodecyl-ester.pdf>

Generated by Cheméo on 2024-04-27 19:07:00.000745958 +0000 UTC m=+16534068.921323286.

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