

Phthalic acid, 2-(2-fluorophenyl)ethyl hexyl ester

Inchi:	InChI=1S/C22H25FO4/c1-2-3-4-9-15-26-21(24)18-11-6-7-12-19(18)22(25)27-16-14-17-1
InchiKey:	DVFNWXDZGLEODW-UHFFFAOYSA-N
Formula:	C22H25FO4
SMILES:	CCCCCOC(=O)c1ccccc1C(=O)OCCc1ccccc1F
Mol. weight [g/mol]:	372.43

Physical Properties

Property code	Value	Unit	Source
gf	-322.73	kJ/mol	Joback Method
hf	-733.00	kJ/mol	Joback Method
hfus	48.69	kJ/mol	Joback Method
hvap	87.94	kJ/mol	Joback Method
log10ws	-6.41		Crippen Method
logp	4.962		Crippen Method
mcvol	289.970	ml/mol	McGowan Method
pc	1422.92	kPa	Joback Method
rinpol	3665.00		NIST Webbook
rinpol	3665.00		NIST Webbook
tb	917.93	K	Joback Method
tc	1135.73	K	Joback Method
tf	560.49	K	Joback Method
vc	1.117	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	903.90	J/mol×K	917.93	Joback Method
cpg	917.71	J/mol×K	954.23	Joback Method
cpg	930.24	J/mol×K	990.53	Joback Method
cpg	941.53	J/mol×K	1026.83	Joback Method
cpg	951.60	J/mol×K	1063.13	Joback Method
cpg	960.51	J/mol×K	1099.43	Joback Method
cpg	968.28	J/mol×K	1135.73	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U378053&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
hvap:	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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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