

Phthalic acid, 6-methylhept-2-yl propyl ester

Inchi:

InChI=1S/C19H28O4/c1-5-13-22-18(20)16-11-6-7-12-17(16)19(21)23-15(4)10-8-9-14(2)3

InchiKey:

KZEIFBBYIMYKJF-UHFFFAOYSA-N

Formula:

C19H28O4

SMILES:

CCOC(=O)c1ccccc1C(=O)OC(C)CCCC(C)C

Mol. weight [g/mol]:

320.42

Physical Properties

Property code	Value	Unit	Source
gf	-260.84	kJ/mol	Joback Method
hf	-710.59	kJ/mol	Joback Method
hfus	37.15	kJ/mol	Joback Method
hvap	78.36	kJ/mol	Joback Method
log10ws	-5.59		Crippen Method
logp	4.625		Crippen Method
mcvol	269.690	ml/mol	McGowan Method
pc	1459.02	kPa	Joback Method
rinpol	2118.00		NIST Webbook
rinpol	2118.00		NIST Webbook
tb	817.48	K	Joback Method
tc	1021.25	K	Joback Method
tf	457.15	K	Joback Method
vc	1.028	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	820.12	J/mol×K	817.48	Joback Method
cpg	889.98	J/mol×K	987.28	Joback Method
cpg	878.23	J/mol×K	953.32	Joback Method
cpg	865.39	J/mol×K	919.36	Joback Method
cpg	851.44	J/mol×K	885.40	Joback Method
cpg	836.35	J/mol×K	851.44	Joback Method
cpg	900.66	J/mol×K	1021.25	Joback Method
dvisc	0.0000530	Pa×s	817.48	Joback Method

dvisc	0.0000702	Pa×s	757.42	Joback Method
dvisc	0.0000975	Pa×s	697.37	Joback Method
dvisc	0.0001441	Pa×s	637.32	Joback Method
dvisc	0.0002312	Pa×s	577.26	Joback Method
dvisc	0.0004138	Pa×s	517.21	Joback Method
dvisc	0.0008629	Pa×s	457.15	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U377956&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
dvisc:	Dynamic viscosity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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