Fumaric acid, hexyl 2-propylphenyl ester

Inchi: InChI=1S/C19H26O4/c1-3-5-6-9-15-22-18(20)13-14-19(21)23-17-12-8-7-11-16(17)10-4-2
InchiKey: GUXZNDAAULJQLK-BUHFOSPRSA-N
Formula: C19H26O4
SMILES: CCCCCCOC(=O)C=CC(=O)Oc1ccccc1CCC
Mol. weight [g/mol]: 318.41

Physical Properties

Property code	Value	Unit	Source
gf	-175.74	kJ/mol	Joback Method
hf	-582.81	kJ/mol	Joback Method
hfus	44.39	kJ/mol	Joback Method
hvap	79.10	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.224		Crippen Method
mcvol	265.390	ml/mol	McGowan Method
pc	1499.99	kPa	Joback Method
rinpol	2260.00		NIST Webbook
tb	822.52	K	Joback Method
tc	1026.70	K	Joback Method
tf	482.07	K	Joback Method
vc	1.020	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	793.06	J/mol×K	822.52	Joback Method
cpg	808.50	J/mol×K	856.55	Joback Method
cpg	822.88	J/mol×K	890.58	Joback Method
cpg	836.26	J/mol×K	924.61	Joback Method
cpg	848.65	J/mol×K	958.64	Joback Method
cpg	860.10	J/mol×K	992.67	Joback Method
cpg	870.63	J/mol×K	1026.70	Joback Method
dvisc	0.0006034	Pa×s	482.07	Joback Method
dvisc	0.0003277	Pa×s	538.81	Joback Method

dvisc	0.0001999	Pa×s	595.55	Joback Method
dvisc	0.0001329	Pa×s	652.30	Joback Method
dvisc	0.0000944	Pa×s	709.04	Joback Method
dvisc	0.0000705	Pa×s	765.78	Joback Method
dvisc	0.0000548	Pa×s	822.52	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U348129&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