3-Phenylpropionic acid, 2- naphthyl ester

Inchi: InChI=1S/C19H16O2/c20-19(13-10-15-6-2-1-3-7-15)21-18-12-11-16-8-4-5-9-17(16)14-18
InchiKey: UJLMWHLDQYNCQZ-UHFFFAOYSA-N
Formula: C19H16O2
SMILES: O=C(CCc1ccccc1)Oc1ccc2ccccc2c1
Mol. weight [g/mol]: 276.33

Physical Properties

Property code	Value	Unit	Source
gf	197.02	kJ/mol	Joback Method
hf	-27.63	kJ/mol	Joback Method
hfus	32.46	kJ/mol	Joback Method
hvap	73.90	kJ/mol	Joback Method
log10ws	-5.62		Crippen Method
logp	4.378		Crippen Method
mcvol	219.030	ml/mol	McGowan Method
pc	2258.96	kPa	Joback Method
rinpol	2420.00		NIST Webbook
tb	787.73	K	Joback Method
tc	1033.89	K	Joback Method
tf	474.11	K	Joback Method
vc	0.830	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	610.60	J/mol×K	787.73	Joback Method
cpg	674.43	J/mol×K	992.86	Joback Method
cpg	663.72	J/mol×K	951.84	Joback Method
cpg	652.10	J/mol×K	910.81	Joback Method
cpg	639.44	J/mol×K	869.78	Joback Method
cpg	625.64	J/mol×K	828.76	Joback Method
cpg	684.31	J/mol×K	1033.89	Joback Method
dvisc	0.0001640	Pa×s	787.73	Joback Method
dvisc	0.0001998	Pa×s	735.46	Joback Method

dvisc	0.0002508	Pa×s	683.19	Joback Method
dvisc	0.0003269	Pa×s	630.92	Joback Method
dvisc	0.0004470	Pa×s	578.65	Joback Method
dvisc	0.0006504	Pa×s	526.38	Joback Method
dvisc	0.0010280	Pa×s	474.11	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U307787&Units=SI

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