

Sebacic acid, 4-chlorophenethyl heptyl ester

Inchi: InChI=1S/C25H39ClO4/c1-2-3-4-9-12-20-29-24(27)13-10-7-5-6-8-11-14-25(28)30-21-19
InchiKey: WBTNVZZQRHEIEN-UHFFFAOYSA-N
Formula: C25H39ClO4
SMILES: CCCCCCOC(=O)CCCCCCCC(=O)OCCc1ccc(Cl)cc1
Mol. weight [g/mol]: 439.03

Physical Properties

Property code	Value	Unit	Source
gf	-217.37	kJ/mol	Joback Method
hf	-839.61	kJ/mol	Joback Method
hfus	63.93	kJ/mol	Joback Method
hvap	96.88	kJ/mol	Joback Method
log10ws	-7.80		Crippen Method
logp	7.060		Crippen Method
mcvol	366.470	ml/mol	McGowan Method
pc	948.50	kPa	Joback Method
rinpol	3092.00		NIST Webbook
rinpol	3092.00		NIST Webbook
tb	993.07	K	Joback Method
tc	1216.15	K	Joback Method
tf	584.69	K	Joback Method
vc	1.425	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1207.72	J/mol×K	993.07	Joback Method
cpg	1273.94	J/mol×K	1178.97	Joback Method
cpg	1263.48	J/mol×K	1141.79	Joback Method
cpg	1251.68	J/mol×K	1104.61	Joback Method
cpg	1238.49	J/mol×K	1067.43	Joback Method
cpg	1223.86	J/mol×K	1030.25	Joback Method
cpg	1283.10	J/mol×K	1216.15	Joback Method
dvisc	0.0000223	Pa×s	993.07	Joback Method

dvisc	0.0000290	Pa×s	925.01	Joback Method
dvisc	0.0000394	Pa×s	856.94	Joback Method
dvisc	0.0000563	Pa×s	788.88	Joback Method
dvisc	0.0000862	Pa×s	720.82	Joback Method
dvisc	0.0001441	Pa×s	652.75	Joback Method
dvisc	0.0002716	Pa×s	584.69	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U416254&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

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log_{10ws}:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
p_c:	Critical Pressure
rin_{pol}:	Non-polar retention indices
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

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