

Supporting Information
for
Cyclic phosphonium ionic liquids

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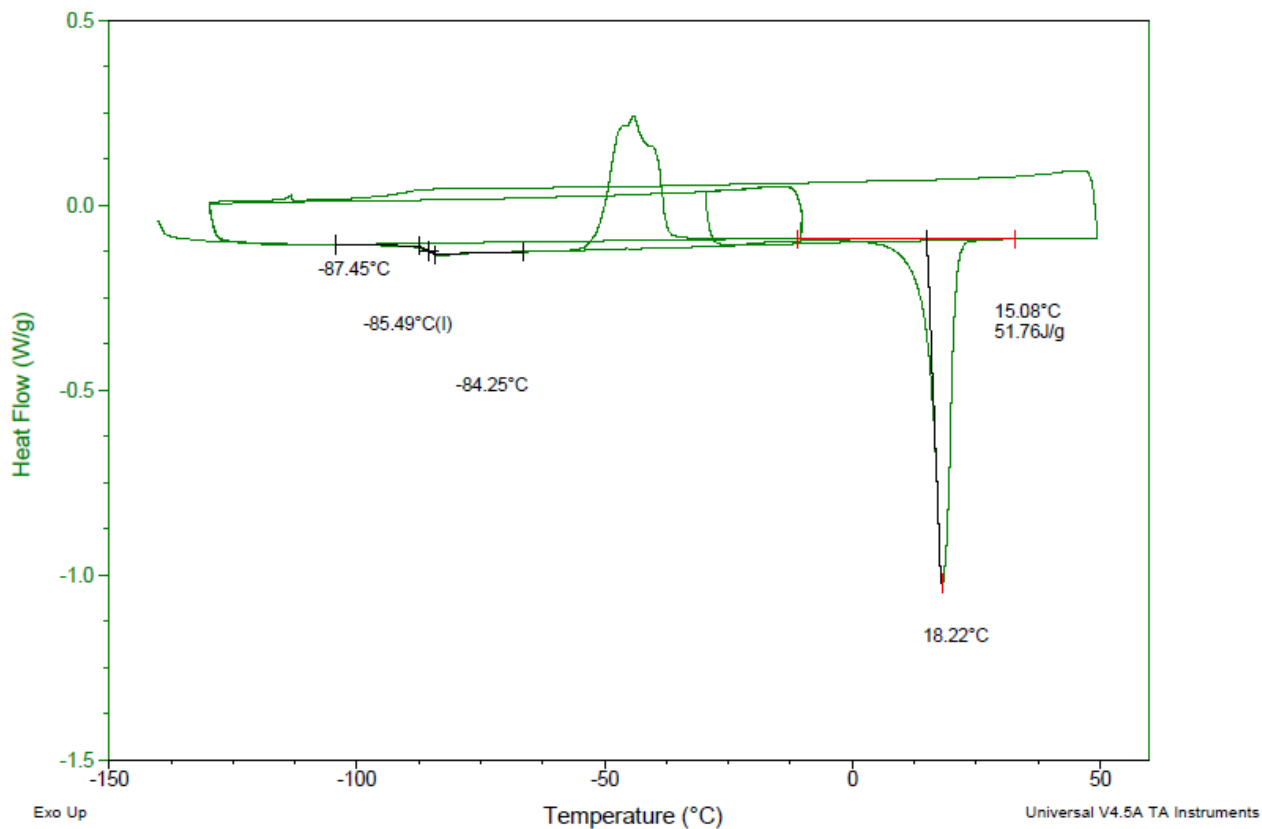
DSC Thermograms

Butylmethylphospholanium NTf₂ (5a)

Sample: P14_phos_NTf2
Size: 8.6700 mg
Method: Annealing C4mPhospholaniumNTf2
Comment: P1,4(phos)NTf2, P-analogue of C4mPyrrNTf2, BM-Phospholanium

DSC

File: C:\...\JoshuaJM-82-3\IP14_phos_NTf2.011
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Run Date: 11-Mar-2012 21:17
Instrument: DSC Q100 V9.9 Build 303

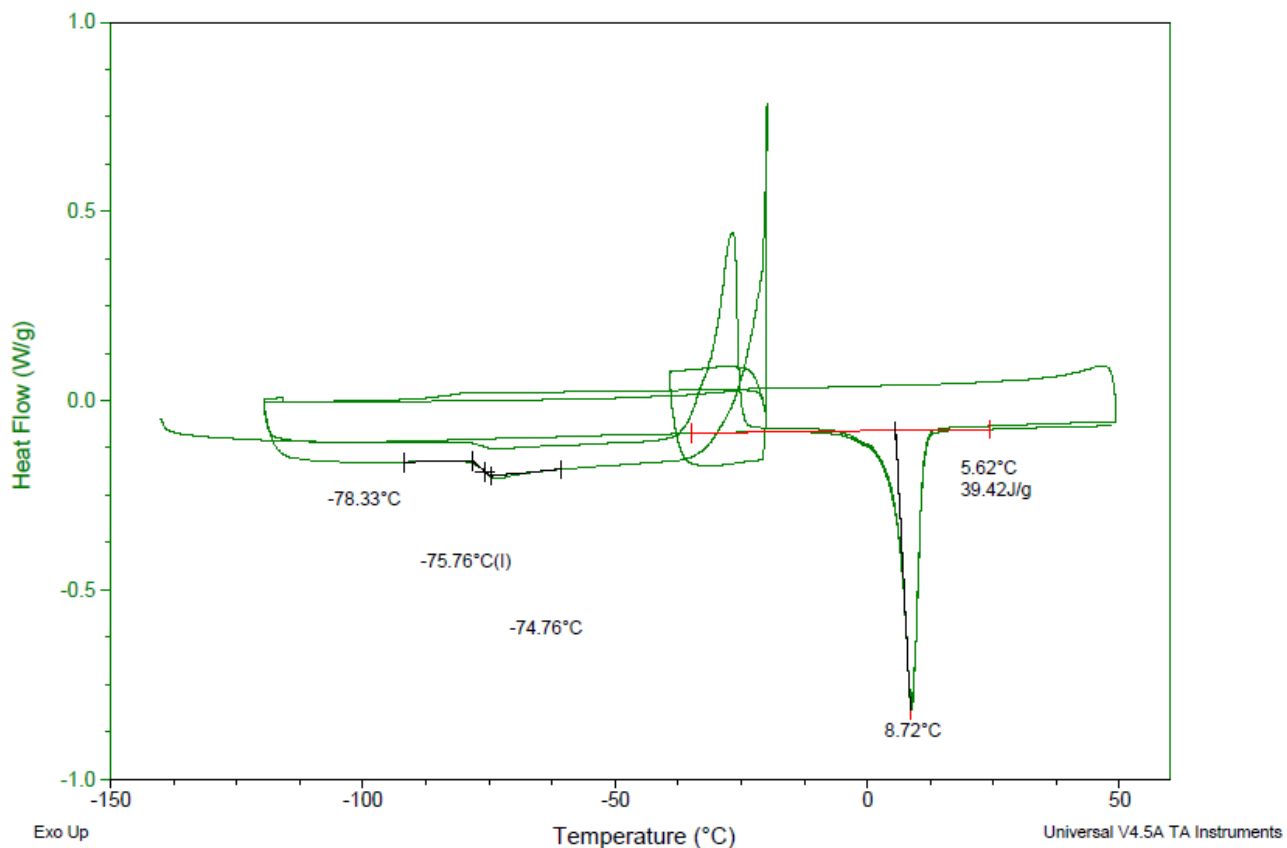


Butylmethylphosphinanium NTf₂ (5b)

Sample: Pip14_phos_NTf2
Size: 6.9600 mg
Method: Annealing for pip14ntfs-P-ana
Comment: Pip1,4(phos)NTf2, P-analogue of b-m piperidine, BM-Phosphorinani

DSC

File: C:\...\DSC\Joshua\Pip14_phos_NTf2.002
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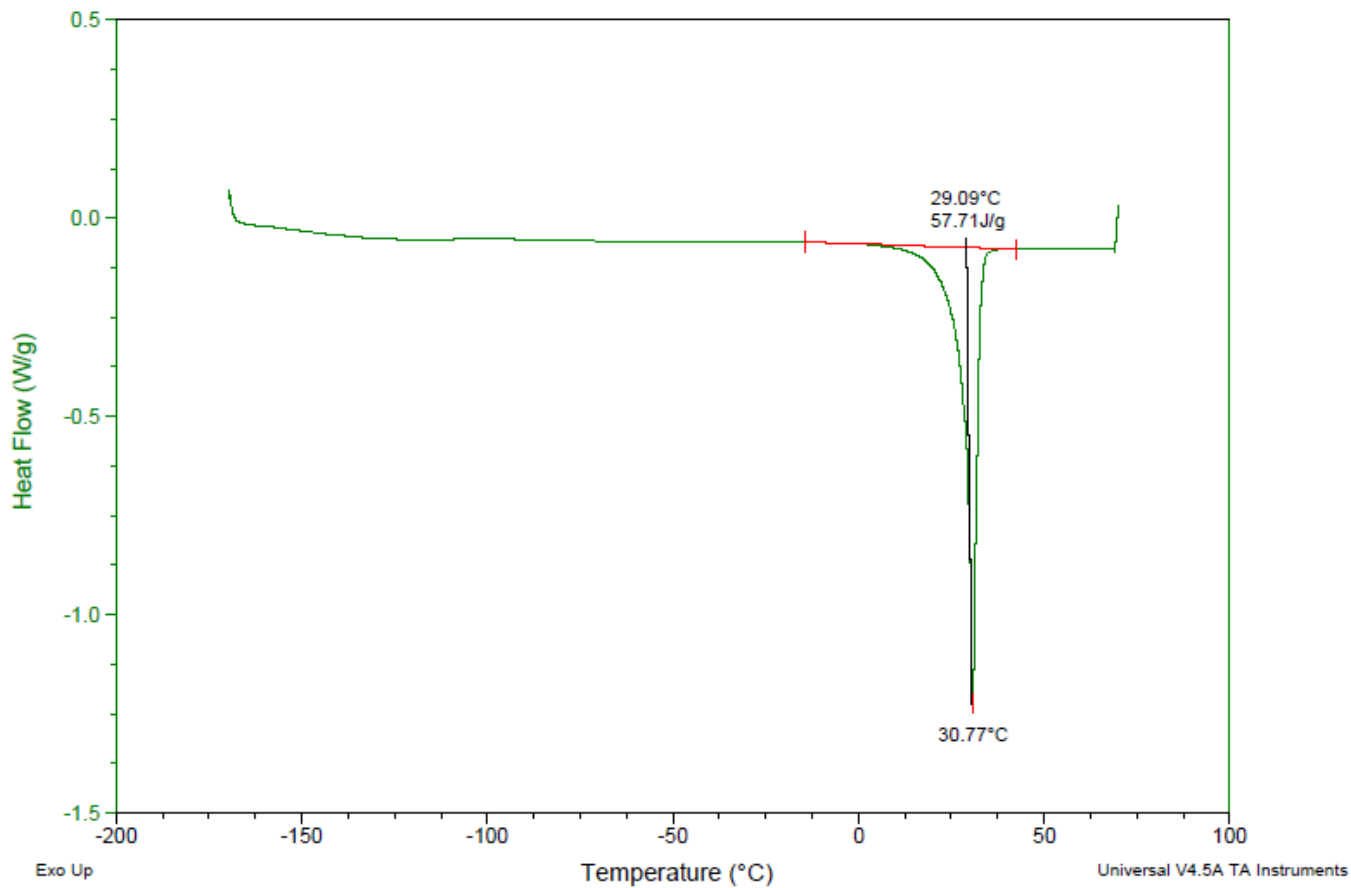


Butylphenylphospholanium NTf₂ (5c)

Sample: JM 110-2
Size: 7.0900 mg
Method: Annealing C4Ph-phos
Comment: Phenyl Butyl 5-membered phosphonium NTf₂, crystallized by scratching

DSC

File: C:\DSC\Joshua\JM110-2\JM 110-2.007
Operator: MG
Run Date: 14-Jun-2012 18:42
Instrument: DSC Q100 V9.9 Build 303



Butylphenylphospholanium NTf₂ (5c)

Sample: JM 110-2

Size: 7.0900 mg

Method: Annealing C4Ph-phos

Comment: Phenyl Butyl 5-membered phosphonium NTf₂, crystzid by scraching

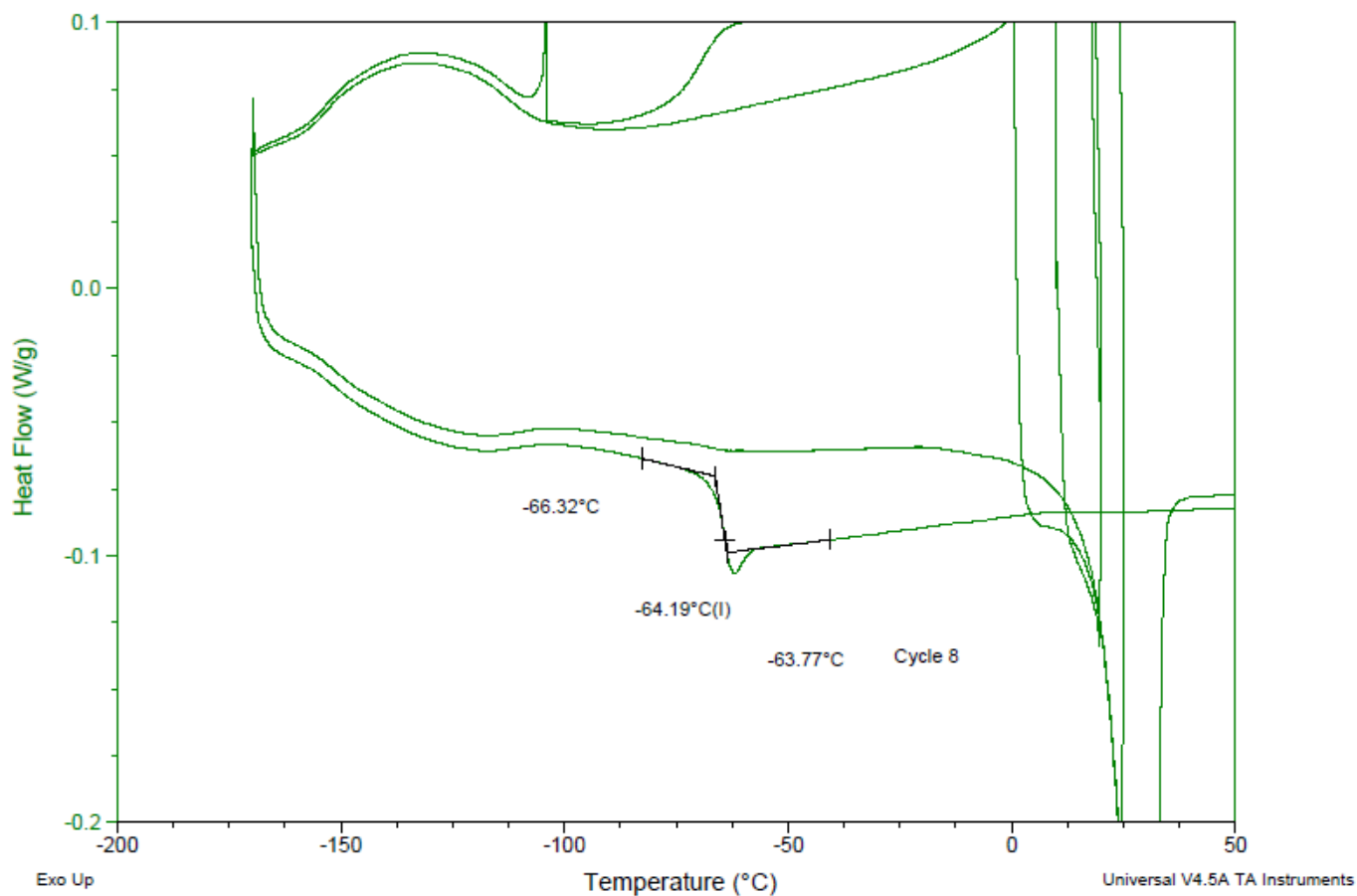
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Run Date: 14-Jun-2012 18:42

Instrument: DSC Q100 V9.9 Build 303



Butylphenylphosphinanium NTf₂ (5d)

Sample: PhC4C6P- AR10 NTf2
Size: 2.2500 mg
Method: Standard triple scan start cold
Comment: PhC4C6P- AR10 NTf2, phenylbutylphosphinanium NTf2

DSC

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Instrument: DSC Q100 V9.8 Build 296

